

SEQUENCE LISTING

<110> Houghton, Raymond L.
Sleath, Paul R.
Persing, David H.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
AND DIAGNOSIS OF BREAST CANCER

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<141> 2002-02-13

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<212> DNA

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<210> 33

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<400> 35

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<212> DNA

<213> Homo sapien

<400> 39

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<211> 676

<212> DNA

<213> Homo sapien

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ttccccattt	aaattttaca	ttacttgcca	agaaaaaaaa	aaaattaaaa	ctcaagttac	180
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ttcctgctct	ataagcagat	ccaggcccta	gaaagatggg	accaggggat	ataattgttt	300
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gggggtaagg	gagggacatt	ttcttccaga	agaaaagaca	gaatttctga	agagtcccag	420
tccataattt	tcccaaaatg	gttggaggag	agggtaaaat	ctcaacatga	gtttcaaagt	480
actgtctctg	tgaggggccc	gtagatgcct	tgctgaggag	ggatggctaa	tttggaccat	540
gccccatccc	cagctaggag	aatggaaatg	gaaactttta	ttgcccagtg	ggtgtgaaag	600
tgggctgaag	cttggtttgt	actgaattct	ctaagaggtt	tcttctagaa	acagacaact	660

cagacctgcc cgggcg

676

<210> 42

<211> 468

<212> DNA

<213> Homo sapien

<400> 42

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ctgagcctca	gtctccctcc	cttggggcct	atgcagaggt	ccacaacaca	cagatttgag	120
ctcagccctg	gtgggcagag	aggtagggat	ggggctgtgg	ggatagtgag	gcatcgcaat	180
gtaagactcg	ggattagtag	acacttggtg	attaatggaa	atgtttacag	atccccaagc	240
ctggcaaggg	aatttcttca	actccctgcc	ccccagccct	ccttatcaaa	ggacaccatt	300
ttggcaagct	ctatgaccaa	ggagccaaac	atcctacaag	acacagtgac	catactaatt	360
aaaacccccct	gcaaagccca	gcttgaaaacc	ttcacttagg	aacgtaatcg	tgtcccctat	420
cctacttccc	cttcctaatt	ccacagacct	gcccgggcgg	ccgctcga		468

<210> 43

<211> 408

<212> DNA

<213> Homo sapien

<400> 43

atcatatcaa	aacactatct	tcccatctgt	ttctcaatgc	ctgctacttc	ttgtagatat	60
ttcattttcag	gagagcagca	gttaaaccgg	tggattttgt	agttaggaaac	ctgggttcaa	120
acctctttcc	actaattggc	tatgtctctg	gacagttttt	tttttttttt	ttttttttta	180
accttttctg	aacttttact	ttctatggct	acctcaaaga	attgttgtga	ggcttgagat	240
aatgcatttg	taaagggtct	gccagatagg	aagatgctag	ttatggattt	acaaggttgt	300
taaggctgta	agagtctaaa	acctacagtg	aatcacaatg	catttaccct	cactgacttg	360
gacataagtg	aaaactagcc	cgaagtctct	ttttcaaatt	acttacag		408

<210> 44

<211> 160

<212> DNA

<213> Homo sapien

<400> 44

tggtcgcggc	cgaggtcttg	tgtgccctgt	gggccagggg	accaagaaca	acaagatcca	60
ctctctgtgc	tacaatgatt	gcaccttctc	acgcaacact	ccaaccagga	ctttcaacta	120
caacttctcc	gctttggcaa	acaccgtcac	tcttgctgga			160

<210> 45

<211> 231

<212> DNA

<213> Homo sapien

<400> 45

cgagcggccg	cccgggcagg	tctggggagg	tgattccatc	cagagtcata	tctgttggtca	60
ccccaaataag	tcgatcagca	aggctgacag	gctgtgagga	aaccccggcc	ttgtagcctg	120
tcacctctgg	ggggatgatg	actgcctggc	agacgtaggc	tgtgatagat	ttgggagaaa	180
acctgactca	ccctcaggaa	tccggagggtc	ggtgacattg	tcggtgcaca	c	231

<210> 46

<211> 371

"0076662" 091302

<212> DNA

<213> Homo sapien

<400> 46

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cccgggcagg tctgtgtaac atgccaaaggc tttgcacttt ctgcagagca gtttttttatt    60
ttccttatca ggtacagggt ttgggtttttc ttgactatct ctgatgaatt tttcatgagt    120
ctgtatatgc agaattcttt ccctaaatac tgcttcgtcc catgtctgaa ggcgtaaaat    180
aaagtcattc atcatttttt ctttgtacat gtttatttgt tctttttcaa ttacaccaag    240
cattactagt cagaaggaag cacttgctac ctcttgctct tcctctgcct ctggtttgga    300
tcattttgat gacattgccc acattactca tgaaggatga caagattgca ctgtgcaatg    360
tcaattgcct t                                     371

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<210> 47

<211> 261

<212> DNA

<213> Homo sapien

<400> 47

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gccctgtttt tatacacttc acatttgcag aaatataatg atgccctcat tatcagtgag    60
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gcaggattcg atgagattga gcaagatctt actcagagat ttgaagaaaa gctgcaggaa    180
ctagaaagtg tttccaggga tcccagcaat gagaatccta aacttgaaga cctctgcttc    240
atcttacaag aagagtacca c                                     261

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<210> 48

<211> 701

<212> DNA

<213> Homo sapien

<400> 48

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cgagcggccc cggggcagggt ccaattagta caagtctcat gatataatca ctgcctgcat    60
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agagattatt attcttgatg tttgctttgt attggctaac aaatgtgcag aggtaataca    180
tatgtgatgt ccgatgtctc tgtctttttt tttgtcttta aaaaataatt ggcagcaact    240
gtatttgaat aaaatgattt cttagtagta ttgtaccgta atgaatgaaa gtggaacatg    300
tttctttttg aaagggagag aattgaccat ttattattgt gatgtttaag ttataactta    360
ttgagcactt ttagtagtga taactgtttt taaacttgcc taataccttt cttgggtatt    420
gtttgtaatg tgacttattt aacccccctt tttgtttgtt taagttgctg ctttaggtta    480
acagcgtggt ttagaagatt taaatttttt tcctgtctgc acaattagtt attcagagca    540
agagggcctg attttataga agcccccttg aaagagggtc agatgagagc agagatacag    600
tgagaaatta tgtgatctgt gtgttgtggg aagagaattt tcaatatgta actacggagc    660
tgtagtgcca ttagaaactg tgaatttcca aataaatttg a                                     701

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<210> 49

<211> 270

<212> DNA

<213> Homo sapien

<400> 49

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agcggccgccc cgggcagggtc tgatattagt agctttgcaa ccctgataga gtaaataaat    60
tttatgggcg ggtgccaaat actgctgtga atctatttgt atagtatcca tgaatgaatt    120
tatggaaata gatatttgtg cagctcaatt tatgcagaga ttaaatagaca tcataatact    180
ggatgaaaac ttgcatagaa ttctgattaa atagtgggtc tgtttcacat gtgcagtttg    240
aagtatttaa attaaccact cctttcacag                                     270

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<210> 50
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 50
 atgcatttat ccatatgaac ttgattattc tgaattactg actataaaaa ggctattgtg 60
 aaagatatca cactttgaaa cagcaaatga attttcaatt ttacatttaa ttataagacc 120
 acaataaaaa gttgaacatg cgcataatcta tgcatttcac agaagattag taaaactgat 180
 ggcaacttca gaattatttc atgaagggtta caaacagtct ttaccacaat tttcccatgg 240
 tcttatcctt caaaataaaa ttccacacac t 271

<210> 51
 <211> 241
 <212> DNA
 <213> Homo sapien

<400> 51
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 aatggcttat cccacccgcc atgtaagtta ccatgcctgt ctctccctc ctacacattt 120
 ccagctcctg ctgcagttat tcctacagaa gctgccattt accagccctc tgtgattttg 180
 aatccacgag cactgcaggc cctccacagc gttactacct agcaggcact cagctcttca 240
 t 241

<210> 52
 <211> 271
 <212> DNA
 <213> Homo sapien

<400> 52
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 atctgattcc aaattcacat tttaaatgcc tatttgcaat cagcaaagag ccaggtatgc 120
 tgcattgctg ttgctgtaag ttacgatttg gcttactag ctcaaatttt ttactccac 180
 caaaagataa ggcacaggcc cgtttgtcca atcaagtttg ctgaaaatac tgcagcctga 240
 gtgtagacaa acttcccctg aatttgctag a 271

<210> 53
 <211> 493
 <212> DNA
 <213> Homo sapien

<400> 53
 ttagcgtggc cgcgggtccga ggtctggcct gactagctca ctctgaagag tgtctttcac 60
 atggattaac caaaaaatgc attactgcct ttggcacact gtcttgaata ttctttctga 120
 caatgagaaa atatgattta atggagtcgt tcaataacct cacaatctcg ctgttccgag 180
 cagatagttt tctgtgccaac aggaactggc acatctagca ggttcacggc atgacctttt 240
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 agcttttgaa gttttcaagc attcctctcc agttgcctgt ggttggttct tgaacaccat 360
 ctccaacccc accacctcca gatgcaacct tgtctcgtga tacagacctg cccggggcggc 420
 cctcaagggc gaattctgca gatatccatc acactggcgg ccgctcgagc atgcatctag 480
 agggcccaat tcg 493

<210> 54

<211> 321
 <212> DNA
 <213> Homo sapien

<400> 54
 cgtggtcgcg gccgaggtct gtttgcttgt tgggtgtgagt ttttcttctg gagactttgt 60
 actgaatgtc aataaactct gtgattttgt taggaagtaa aactgggatc tatttagcca 120
 ctggtaagct tctgaggtga aggattcagg gacatctcgt ggaacaaaca ctccccactg 180
 gactttctct ctggagatac ccttttgaat atacaatggc ctgggctcac taggtttaaa 240
 tacaacaag tctgaaaccc actgaagact gagagattgc agcaatattc tctgaattag 300
 gatcgggttc cataactcta a 321

<210> 55
 <211> 281
 <212> DNA
 <213> Homo sapien

<400> 55
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 attaacatgc cacacgaaga ctgcattaca gctctctggt tctgtaatgc agaaaaatct 120
 gaacagccca ccttgggttac agctagcaaa gatggttact tcaaagtatg gatattaaca 180
 gatgactctg acatatacaa aaaagctggt ggctggacct gtgactttgt tggtagttat 240
 cacaagtatc aagcaactaa ctgttggttc tccgaagatg g 281

<210> 56
 <211> 612
 <212> DNA
 <213> Homo sapien

<400> 56
 gcgtggtcgc ggccgaggtc ctgtccgggg gcaactgagaa ctccctctgg aattcttggg 60
 ggggtgttggg gagagactgt gggcctggag ataaaacttg tctcctctac caccaccctg 120
 taccctagcc tgcacctgtc ctcatctctg caaagttcag ctcccttccc caggctctctg 180
 tgccactctg tcttggatgc tctggggagc tcatgggtgg aggagtctcc accagaggga 240
 ggctcagggg actggttggg ccagggatga atatttgagg gataaaaatt gtgtaagagc 300
 caaagaattg gtagtagggg gagaacagag aggagctggg ctatgggaaa tgatttgaat 360
 aatggagctg ggaatatggc tggatatctg gtactaaaaa agggctctta agaacctact 420
 tcctaattct tcccccaatc caaaccatag ctgtctgtcc agtgctctct tcctgcctcc 480
 agctctgccc caggctcctc ctagactctg tccctgggct agggcagggg aggagggaga 540
 gcagggttgg gggagaggct gaggagagtg tgacatgtgg ggagaggacc agacctgccc 600
 gggcggccgt cg 612

<210> 57
 <211> 363
 <212> DNA
 <213> Homo sapien

<400> 57
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 gacaagacat ttgacttccc ttctcctttg tctataaaat gtggacagtg gacgtctgtc 120
 acccaagaga gttgtgggag acaagatcac agctatgagc acctcgcacg gtgtccagga 180
 tgcacagcac aatccatgat gcgttttctc cccttacgca ctttgaaacc catgctagaa 240
 aagtgaatac atctgactgt gctccactcc aacctccagc gtggatgtcc ctgtctgggc 300
 cctttttctg ttttttattc tatgttcagc accactggca ccaaatacat ttttaattcac 360

cga

363

<210> 58
 <211> 750
 <212> DNA
 <213> Homo sapien

<400> 58

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ctgcgccctt	ctcccaactc	gcgtgcctca	cagaacccag	gtgctgcaca	gccccgagat	120
gtggcccttc	ttcaggaaaag	agcaaataag	ttggtccaag	tacttgatgc	ttaaggaata	180
cacaaagggtg	cccatcaagc	gctcagaaat	gctgagagat	atcatccgtg	aatacactga	240
tgtttatcca	gaaatcattg	aacgtgcatg	ctttgtccta	gagaagaaat	ttgggattca	300
actgaaaagaa	attgacaaaag	aagaacacct	gtatatcttc	atcagtaccc	ccgagtcacct	360
ggctggcata	ctgggaacga	ccaaagacac	acccaagctc	ggctctcttc	tggtgattct	420
gggtgtcatc	ttcatgaatg	gcaaccgtgc	cagtgaaggct	gtcttttggg	aggcactacg	480
caagatggga	ctgcgtcctg	gggtgagaca	tcccctccct	tggagatcta	aggaaacttc	540
tcacctatga	gtttgtaaaag	cagaaatacc	tggactacag	acgagtgcc	aacagcaacc	600
ccccggagta	tgagttcctc	tggggcctcc	gtccctacca	tgagactagc	aagatgaaaa	660
tgctgagatt	cattgcagag	gttcagaaaa	gagaccctcg	tgactggact	gcacagttca	720
tggaggctgc	agatgaggac	ctgcccgggc				750

<210> 59
 <211> 505
 <212> DNA
 <213> Homo sapien

<400> 59

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ttccagccgc	agttctttta	taagctttta	gtgcctcatg	aagacgcgag	gatctcttcc	120
aagtgcgaacc	tggtcacatc	agggcacatt	cagcagcaga	agtctgtttc	cagtatagtc	180
cttggtatgg	ctaaattcca	ctgtcccttt	ctcagcagtc	aataatccat	gataaattct	240
gtacaacact	gtagtcaata	acagcagcac	cagacagcat	attaattctt	ttaccataaa	300
tttgtgtgta	attataatgt	tctatgtgtg	gtgttatcaa	agaatcact	gtgtctctaa	360
atatcatata	tgtatgtctg	gataaatata	ttgctgtaca	acatctccaa	catgcaggtc	420
atgctctaag	acttggggat	atagagtaat	acatgtttcg	tggacctcgg	ccgcgaccac	480
gctaaggggc	aattctgcag	atatac				505

<210> 60
 <211> 520
 <212> DNA
 <213> Homo sapien

<400> 60

cgtggtcg	gccgaggtcc	tcaggacaag	gaaacaggta	tcagcatgat	ggtagcagaa	60
accttatcac	caaggtgcag	gagctgactt	cttccaaaaga	gttgtgggtc	cgggcagcgg	120
tcattgcctg	cccttgctgg	agggtgatt	ttagtggtgc	ttattatgtt	ggccctgagg	180
atgcttcgaa	gtgaaaataa	gagggtgcag	gatcagcggc	aacagatgct	ctcccgtttg	240
cactacagct	ttcacggaca	ccattccaaa	aaggggcagg	ttgcaaagtt	agacttggaa	300
tgcatggtgc	cggtcagtgg	gcacgagaac	tgctgtctga	cctgtgataa	aatgagacaa	360
gcagacctca	gcaacgataa	gatcctctcg	cttgttcact	ggggcatgta	cagtgggcac	420
gggaagctgg	aattcgtatg	acggagtctt	atctgaacta	cacttactga	acagcttgaa	480
ggacctgccc	gggcggccgc	tcgaaagggg	cgaattctgc			520

<210> 61
 <211> 447
 <212> DNA
 <213> Homo sapien

<400> 61
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 gttctccagg ctgtagggcc cagaggctta atcagaattt tcagacaaaa ctggaacctt 120
 tcttttttcc cgtttggtta tttgtagtcc ttgggcaaac caatgtcttt gttcgaaaga 180
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 aggcttgcta tataggtaaa ttgcatgtca ccagggtttg ttgtacagat tatttcatca 300
 tccagataaa aagcatagta ccagataggt agttttttga tcctcaccct ccttccatgc 360
 tccgacctca ggtaggcccc agtgtctgac ctgcccggcg gcccgctcga aagggccaat 420
 tctgcagata tccatcacac tggcccg 447

<210> 62
 <211> 83
 <212> PRT
 <213> Homo sapien

<400> 62
 Lys Lys Val Leu Leu Ile Thr Ala Ile Leu Ala Val Ala Val Gly
 1 5 10 15
 Phe Pro Val Ser Gln Asp Gln Glu Arg Glu Lys Arg Ser Ile Ser Asp
 20 25 30
 Ser Asp Glu Leu Ala Ser Gly Phe Phe Val Phe Pro Tyr Pro Tyr Pro
 35 40 45
 Phe Arg Pro Leu Pro Pro Ile Pro Phe Pro Arg Phe Pro Trp Phe Arg
 50 55 60
 Arg Asn Phe Pro Ile Pro Ile Pro Ser Ala Pro Thr Thr Pro Leu Pro
 65 70 75 80
 Ser Glu Lys

<210> 63
 <211> 683
 <212> DNA
 <213> Homo sapien

<400> 63
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 ccaactaaaa aaaatattga aaccactttt gattgaagca aaatgaataa tgctagattt 180
 aaaaacagtg tgaaatcaca ctttggtctg taaacatatt tagctttgct tttcattcag 240
 atgtatacat aaacttattt aaaatgtcat ttaagtgaac cattccaagg cataataaaa 300
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 gaaactgaat tccatccagt agaagcatct ccttttgggg aatctgaaca agtrccaacc 420
 cagatagcaa catccactaa tccagcacca attccttcac aaagtccttc cacagaagaa 480
 gtgcgatgaa tattaattgt tgaattcatt tcagggttcc cttgggtccaa ataaattata 540
 gcttcaatgg gaagagggtcc tgaacattca gctccattga atgtgaaata ccaacgctga 600
 cagcatgcat ttctgcattt tagccgaagt gagccactga acaaaaactct tagagcacta 660
 tttgaacgca tctttgtaaa tgt 683

<210> 64

<211> 749
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 534
 <223> n = A,T,C or G

<400> 64
 ctgttcattt gtccgccagc tcctggactg gatgtgtgaa aggcattcaca tttccatttt 60
 cctccgtgta aatgttttat gtgttcgcct actgatccca ttcgttgctt ctattgtaaa 120
 tatttgtcat ttgtatttat tatctctgtg ttttccccct aaggcataaa atggttttact 180
 gtgttcattt gaacccattt actgatctct gttgtatat tttcatgcca ctgctttgtt 240
 ttctcctcag aagtcgggta gatagcattt ctatcccatc cctcacgtta ttggaagcat 300
 gcaacagtat ttattgctca gggctcttctg cttaaaaactg aggaagggtcc acattcctgc 360
 aagcattgat tgagacattt gcacaatcta aaatgtaagc aaagtaagtc attaaaaata 420
 caccctctac ttgggcttta tactgcatac aaatttactc atgagccttc ctttgaggaa 480
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 gatctgaaca cctctccttt gtatcaataa atagccctgt tattctgaag tgagaggacc 600
 aagtatagta aaatgctgac atctaaaact aaataaatag aaaacaccag gccagaacta 660
 tagtcatact cacacaaagg gagaaattta aactcgaacc aagcaaaaagg cttcacggaa 720
 atagcatgga aaaacaatgc ttccagtgg 749

<210> 65
 <211> 612
 <212> DNA
 <213> Homo sapiens

<400> 65
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 cccaccccca ggatccggga ccaaaataaa gagcaagcag gcccccttca ctgagggtgct 120
 gggtagggct cagtgccaca ttactgtgct ttgagaaaga ggaaggggat ttgtttggca 180
 ctttaaaaaat agaggagtaa gcaggactgg agaggccaga gaagatacca aaattggcag 240
 ggagagacca tttggcgcca gtcccctagg agatgggagg agggagatag gtatgagggt 300
 aggcgctaag aagagtagga ggggtccact ccaagtggca ggggtctgaa atgggctagg 360
 accaacagga cactgactct aggtttatga cctgtccata cccgttccac agcagctggg 420
 tgggagaaat caccattttg tgactttctaa taaaataatg ggtctaggca acagttttca 480
 atggatgcta aaacgattag gtgaaaagtt gatggagaat ttttaattcag gggaattagg 540
 ctgataccat ctgaaaccat ttggcatcat taaaaatgtg acaacctggt ggctgccagg 600
 gaggaagggg ag 612

<210> 66
 <211> 703
 <212> DNA
 <213> Homo sapiens

<400> 66
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 gcacagaacc agaattaca gaaaaaagtc caggagctgg agaggcaca catctccttg 120
 gtagctcagc tccgccagct gcagacgcta attgctcaaa cttccaacaa agctgcccag 180
 accagcactt gtgttttgat tcttcttttt tccctggctc tcatcatcct gccagcttc 240
 agtccattcc agagtcgacc agaagctggg tctgaggatt accagcctca cggagtgact 300
 tccagaata tcctgaccca caaggacgta acagaaaatc tggagaccca agtggtagag 360

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tccagactga gggagccacc tggagccaag gatgcaaattg gctcaacaag gacactgctt 420
gagaagatgg gaggggaagcc aagacccagt gggcgcatcc ggtccgtgct gcatgcagat 480
gagatgtgag ctggaacaga ccttcctggc ccacttcctg atcacaagga atcctgggct 540
tccttatggc tttgcttccc actgggattc ctacttaggt gtctgccctc aggggtccaa 600
atcacttcag gacaccccaa gagatgtcct ttagtctctg cctgaggcct agtctgcatt 660
tgtttgcata tatgagaggg tacctgcccg ggcggccgct cga 703

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<210> 67
<211> 1022
<212> DNA
<213> Homo sapiens

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<400> 67
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accatggatg aactgtttct cagcactgtg ctgcttcaact tggaaattaag gatgaattgg 180
gaggagacag tatgacatag gtgggtaggt tgggtggtga ggggaaccag ttctaatagt 240
cctcaactcc actccagctg ttctgttcc acacggtcca ctgagctggc ccagtccctt 300
tcaactcagt tgtcaccaaa ggcagcttca aggtcfaatg gcaagagacc acctataacc 360
tcttcacctt ctgctgcctc tttctgctgc cactgactgc catggccatc tgctatagcc 420
gcattgtcct cagtgtgtcc aggccccaga caagggaagg gagccatggg gagactccaa 480
ttccagggcc ttaatcctta accctagacc tgttgccctc agcatcattt atttatctac 540
ctacctaata gctatctacc agtcattaaa ccatgggtgag attctaacca tgtctagcac 600
ctgatgctag agataatttt gttgaatccc ttcaattata aacagctgag ttagctggac 660
aaggactagg gaggcaatca gtattattta ttcttgaaca ccatcaagtc tagacttggg 720
ggcttcatat ttctatcata atccctgggg gtaagaaatc atatagcccc aggttgggaa 780
ggggaaaacg gtttgcaaca ttctcctcct tgtaggaggc gagctctgtc tcaactagcta 840
tgccctcca tcaattcacc ctatactcag atcagaagct gagtgtctga attacagtat 900
attttctaaa ttcttagccc ctgctgggtga atttgccctc ccccgctcct ttgacaattg 960
tccccgtgtt cgtctccggg ccctgagact ggccctgctt atcttgctga ccttcacctt 1020
ct 1022

```

```

<210> 68
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 68
ccagatccat ttctcagtgg ctggatttct ttttattttc ttttcaactt gaaagaaact 60
ggacattagg ccactatgtg ttgttactgc cactagtgtt caagtgcctc ttgttttccc 120
agagatttcc tgggtctgcc agaggcccag acaggctcac tcaagctctt taactgaaaa 180
gcaacaagcc actccaggac aaggttcaaa atggttacaa cagcctctac ctgtcgcccc 240
agggagaaaag gggtagtgat acaagtctca tagccagaga tggttttcca ctcttcttag 300
atattcccaa aaagaggctg agacaggagg ttattttcaa ttttattttg gaattaaata 360
cttttttccc tttattactg ttgtagtccc tcaattggat atacctctgt tttcacgata 420
gaaataaggg aggtctagag cttctatctc 449

```

```

<210> 69
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 22, 26, 36, 45, 54, 56, 62, 63, 73, 92, 98, 105, 155, 174,
194, 302, 312, 358, 375, 378, 381
<223> n = A,T,C or G

<400> 69

```
gcccttagcg tgggtcgcgg cncgangtct ggagcntatg tgatncctat ggtncncagg 60
cnnatactgc tantctcatt tattctcctg cnacctantc ctctnctctg gaatcacacc 120
attattgcct gttaacactg gactgtgagt accangcaat taatttgcac caanaaagtt 180
gaggggtatta tcanatattg caatctgtac agaggggaaga tgatttcaat ttgatttcaa 240
cttaaccttc atctttgtct gttaacacta atagaggggtg tctaataaaa tggcaaattt 300
gngatctcat tnggtataac tacactcttt ttcacagatg tgatgactga atttccanca 360
acctgccccg gcggnccgntc naagggc 387
```

<210> 70

<211> 836

<212> DNA

<213> Homo sapiens

<400> 70

```
tattccattt acaaaataaa ttcagccctg cacttttctt agatgccttg atttccagaa 60
tggagcttag tgctactgaa taccctggcc acagagccac ctcaggatat tcttttctcc 120
accctagttt atttatttat agatatctgt ttacaaagtc tgtagtaaat cctgatgctg 180
accatctgaa atgtactttt tttctgaatg ctgtttcaat ctaaaatagc agcttttgag 240
aaaacaatga tgtaaattcc ttatgataaa aggatgattc tatatattct ttaatgatat 300
taaatatgcc gaagccaagc acacagtcct tctaaagtgt gtgtatgttt gtgtgaatgt 360
gaatgatact gatcttatat ctgttaaaaag ttgttttaaa aagctgtggc atcccattgt 420
tcataatttg caagtcttct gtaaagatgt ctaggacgaa atattttatg tgctaattgca 480
tgtatttgta aaccagattt gtttaccact caaaattaac ttgttttctt catccaaaaa 540
agtttatttc ttccacgtac tttaaatttc tgtgtgggta taatatagct ttctaatttt 600
tttctttcac aaaggcagggt tcaaaattct gttgaaagaa aaatgctttc tgaaactgag 660
gtataacacc agagcttgct gtttaaaagga ttatatgatg tacatcagtt ctataaatgt 720
gctcagcagt ttaacatgtg aatcctgttt taaagtgtc agatttcaac tgtgtaagcc 780
attgatataa cgctgtaatt aaaaatgttt atatgaaaaa aaaaaaaaaa aaaaaa 836
```

<210> 71

<211> 618

<212> DNA

<213> Homo sapiens

<400> 71

```
gttgcaagtga gctcaagtgt tgggtgtatc agctcaaaac accatgtgat gccaatcatc 60
tccacaggag caatttgttt accttttttt tctgatgctt tactaacttc atctttttaga 120
tttaaatacat tagtagatcc tagaggagcc agtttcagaa aatatagatt ctagttcagc 180
accacccgta gttgtgcatt gaaataatta tcattatgat tatgtatcag agcttctggt 240
tttctcattc ttatttcatt tattcaacaa ccacgtgaca aacactggaa ttacaggatg 300
aagatgagat aatccgctcc ttggcagtggt tatactatta tataacctga aaaaacaaac 360
aggtaatttt cacacaaagt aatagatatc atgacacatt taaaataggg cactactgga 420
acacacagat aggacatcca ggttttgggt caatatgtga gactttttgg tggatgagat 480
atgcaggttg atrccagaag gacaacaaaa acatatgtca gatagaaggg aggagcaaat 540
gccaagagct ggagctgagg aagatcactg tgaaattcta tgtagtctag ttggctggat 600
gctagagcaa agaggtgg 618
```

<210> 72

<211> 806

<212> DNA
<213> Homo sapiens

<400> 72

```
tctacgatgg ccatttgctc attgtctttc ctctgtgtgt agtgagtgac cctggcagtg 60
tttgcttgcg cagagtggcc cctcagaaca acagggtctg ccttggaata accccaaaac 120
aggactgtgg tgacaactct ggtcaggtgt gatttgacat gagggccgga ggcggttgct 180
gacggcagga ctggagaggc tgcgtgcccg gcactggcag cgaggctcgt gtgtcccca 240
ggcagatctg ggcactttcc caaccaggt ttatgccgtc tccagggaag cctcgggtgcc 300
agagtgggtg gcagatctga ccatcccccac agaccagaaa caaggaattt ctgggattac 360
ccagtccccc ttcaaccagc ttgatgtaac cacctcattt ttacaaata cagaatctat 420
tctactcagg ctatgggcct cgtcctcact cagttattgc gagtgttgct gtccgcatgc 480
tccgggcccc acgtggctcc tgtgctctag atcatggtga ctcccccgcc ctgtggttgg 540
aatcgatgcc acggattgca ggccaaattt cagatcgtgt ttccaaacac ccttgctgtg 600
ccctttaatg ggattgaaag cacttttacc acatggagaa atatatattt aatttgtgat 660
gcttttctac aaggtccact atttctgagt ttaatgtgtt tccaacactt aaggagactc 720
taatgaaagc tgatgaattt tcttttctgt ccaaacaagt aaaataaaaa taaaagtcta 780
tttagatggt gaaaaaaaaa aaaaaa
```

<210> 73
<211> 301
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 59
<223> n = A,T,C or G

<400> 73

```
actctggtaa gcttgttggt gtccaagtga agctccctca gatgaggcgt gttggccana 60
gagccattgt caacagcaga gatgctgttg aaactcaatc ccaacttagc caaattattc 120
agtcccttca ggctagctgc atcaactctg ctgattttgt tgccatcaag atgtaattcc 180
gtaaggggaag gaggaagacc ttgaggaatg ctggygatat tgggatcagc aatgcggatg 240
tasgaagagc ttcttcmttc cctggaaagc cccattttca atyccttgag ctcttcakcg 300
g
```

<210> 74
<211> 401
<212> DNA
<213> Homo sapiens

<400> 74

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agtttacatg atccctgtaa cagccatggt ctcaaactca gatgcttcct ccatctgcca 60
agtgtgttct ggatacagag cacatcgtgg cttctggggc cacactcagc ttaggctgtg 120
ggctccacaga gcactcatct ggctgggcta tgggtggtgt ggctctactc aagaagcaaa 180
gcagttacca gcacattcaa acagtgtatt gaacatcttt taaatatcaa agtgagaaac 240
aagaaggcaa cataataatg ttatcagaaa gatgttagga agtaaggaca gctgtgtaaa 300
gcttgaggct gaaaagtagc ttgccagctt catttctttg gtttcttggg tagtgggccc 360
ccggaacagc aagatgtgag gttctggttc atggatcata t
```

<210> 75
<211> 612
<212> DNA

<213> Homo sapiens

<400> 75

```

ttatTTTTca atttttattt tggTTTTctt acaaaggTtg acattttcca taacaggTgt 60
aagagtgttg aaaaaaaaaa tcaaattttt ggggagcgag ggaaggagtT aatgaaactg 120
tattgcacaa tgctctgatc aatccttctt tttctctttt gccacaatt taagcaagta 180
gatgtgcaga agaaatggaa ggattcagct ttcagttaa aaagaagaag aagaaatggc 240
aaagagaaag ttttttcaaa tttctttctt ttttaattta gattgagtTc atttatttga 300
aacagactgg gccaatgtcc acaaagaatt cctggtcagc accaccgatg tccaaaggTg 360
caatatcaag gaagggcagg cgtgatggct tatttgTTTT gtattcaatg attgtctttc 420
cccatcatt tgtcttttta gagcagccat ctacaagaac agtgtaagtg aacctgctgt 480
tgccctcagc aacaagttca acatcattag agccctgtag aatgacagcc tttttcaggt 540
tgccagtctc ctcatccatg tatgcaatgc tgttcttgca gtggtaggTg atgttctgag 600
aggcatagtt gg                                     612

```

<210> 76

<211> 844

<212> DNA

<213> Homo sapiens

<400> 76

```

ggctttcgag cggccgcccc ggcaggTctg atggttctcg taaaaacccc gctagaaaact 60
gcagagacct gaaattctgc catcctgaac tcaagagtgg agaatactgg gttgacccta 120
accaaggatg caaattggat gctatcaagg tattctgtaa tatggaaact ggggaaacat 180
gcataagtgc caatcctttg aatgttccac ggaaacactg gtggacagat tctagtgtctg 240
agaagaaaca cgtttggttt ggagagtcca tggatggTgg ttttcagttt agctacggca 300
atcctgaact tcctgaagat gtccttgatg tgcagcykgc attccttcga cttctctcca 360
gccgagcttc ccagaacatc acatatcact gcaaaaatag cattgcatac atggatcagg 420
ccagtggaaa tgtaaagaag gccctgaagc tgatggggTc aaatgaaggT gaattcaagg 480
ctgaaggaaa tagcaaattc acctacacag ttctggagga tggttgcacg aaacacactg 540
gggaatggag caaaacagtc tttgaatatc gaacacgcaa tgctgttcct tgacattgca 600
ccaccaatgt ccagaggTgc aatgtcaagg aacggcaggc gagatggctt atttgTTTTg 660
tattcaatga ttgtcttgcc ccattcattt gtctttttTg agcagccatc gactaggaca 720
gagtaggtga acctgctgtt gccctcagca acaagttcca catcgTTgga accctgcaga 780
agcacagcct tgttcaarct gcccgTctcc tcatccagat acctcggccg cgaccacgct 840
aatc                                     844

```

<210> 77

<211> 314

<212> DNA

<213> Homo sapiens

<400> 77

```

ccagtccctc acttggcctg atgagagtgg ggagtggcaa gggacgtttc tcctgcaata 60
gacacttaga tttctctctt gtgggaagaa accacctgtc catccactga ctcttctaca 120
ttgatgtgga aattgctgct gctaccacca cctcctgaag aggcttccct gatgccaatg 180
ccagccatcc tggcatcctg gccctcagac aggctgcggT aagtagcgat ctctgtctcc 240
agccgtgtct ttatgtcaag cagcatcttg tactcctggT tctgagcctc catctcgcat 300
cggagctcac tcag                                     314

```

<210> 78

<211> 548

<212> DNA

<213> Homo sapiens

<400> 78

```

accaagagcc aagtgttaca caggatattt taaaaataaa atgtttttgg aatcctcacc 60
tcccatgcta tcttctaaga taactacaaa tattcttcaa agatttaact gagttctgcc 120
aaggacctcc caggactcta tccagaatga ttattgtaaa gctttacaaa tcccaccttg 180
gccctagcga taattaggaa atcacaggca aacctcctct ctcgagagacc aatgaccagg 240
ccaatcagtc tgcacattgg ttttgttaga tactttgtgg agaaaaacaa aggctcgtga 300
tagtgcagct ctgtgcctac agagagcctc ccttttggtt ctgaaattgc tgatgtgaca 360
gagacaaagc tgctatgggt ctaaaacctt caataaagta actaatgaca ctcaagggtcc 420
tgggactctg agacagacgg tggtaaaacc cacagctgcg attcacattt ccaattttatt 480
ttgagctctt tctgaagctg ttgcttccta cctgagaatt cccattttaga gagctgcaca 540
gcacagtc                                     548

```

<210> 79

<211> 646

<212> DNA

<213> Homo sapiens

<400> 79

```

accccgtcac tatgtgaata aaggcagcta gaaaatggac tcaattctgc aagccttcat 60
ggcaacagcc catattaaga cttctagaac aagttaaaaa aaatcttcca ttcccatcca 120
tgcatgggaa aagggtctta gtatagttta ggatggatgt gtgtataata ataaaatgat 180
aagatatgca tagtggggga ataaagcctc agagtccttc cagtatgggg aatccattgt 240
atcttagaac cgagggattt gtttagattg ttgatctact aatttttttc ttactttata 300
tttgaatttt caatgatagg acttattgga aattggggat aattctgttg tggattataa 360
taatattcat tttttaaaaa ctcatcttgg tattgagtta gtgcattgac ttccaatgaa 420
ttgacataag cccatatttc attttaacca gaaacaaaaa ctagaaaatg ttactcccta 480
aataggcaac aatgtatttt ataagcactg cagagattta gtaaaaaaca tgtatagtta 540
ctttagaaac aacttctgac acttgagggg tacccttggt tctccttccc attctttata 600
tgaggtaaat gcaaacaccag gagccaccga ataaacagcc ctgagt                                     646

```

<210> 80

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 16, 29, 32, 45, 53, 55, 58, 59, 65, 66, 75, 77, 85, 90, 97,
109, 112, 163, 170

<223> n = A,T,C or G

<400> 80

```

gtctgaatga gcttcnctgc gagatgganc ancataaccc agaantccaa aancntanng 60
aacgnnaaaa cccgntngaa caagnaaacn gcaactnacg gccgcctgnt gnagggcgag 120
gacgcccacc tctcctcctc ccagttctcc tctggatcgc agncatccan agatgtgacc 180
tcttccagcc gccaaatccg caccaaggtc atggatgtgc acgatggcaa ggtgggtgtc 240
caccacagaa caggtccttc gcaccaagaa ctgagg                                     276

```

<210> 81

<211> 647

<212> DNA

<213> Homo sapiens

1007661.033
2007661.033

<400> 81
 gtcctgcctt tcatcttttc tttaaaaaaa ataaatgttt acaaaacatt tccctcagat 60
 tttaaaattc atggaagtaa taaacagtaa taaaatatgg atactatgaa aactgacaca 120
 cagaaaaaca taaccataaa atattgttcc aggatacaga tattaattaa gagtgacttc 180
 gttagcaaca cgtagacatt catacatatc cggtggaaga ctggtttctg agatgcgatt 240
 gccatccaaa cgcaaagtct tgatcttgga gtaggrtaat ggcccagga tcttgagaa 300
 gctctttatg tcaaacttct caagttgatt gacctccagg taatagtttt caaggttttc 360
 attgacagtt ggtatgtttt taagcttggt ataggacaga tccagctcaa ccagggatga 420
 cacattgaaa gaatttccag gtattccact atcagccagt tcgttggtgag ataaacgcag 480
 atactgcaat gcattaaaac gcttgaaaata ctcacagagg atgttgctga tcttattggt 540
 gtctaagtag agagtttagaa gagagacagg gagaccagaa ggcagtctgg ctatctgatt 600
 gaagctcaag tcaagggtatt cgagtgtttt aagaccttta aaagcag 647

<210> 82
 <211> 878
 <212> DNA
 <213> Homo sapiens

<400> 82
 ccttctttcc cactcaatt cttcctgccc tgttattaat taagatatct tcagcttgta 60
 gtcagacaca atcagaatya cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120
 ctatgatatc aatgaatgtg ggtaaagtaa tagattttcca gctaaattgg tctaaaaaag 180
 aatattaagt gtggacagac ctattttcaaa ggagcttaat tgatctcact tgttttagtt 240
 ctgatccagg gagatcacc cttctaattat ttctgaactt ggtaataaaa agtttataag 300
 atttttatga agcagccact gtatgatatt ttaagcaaat atgttattta aaatattgat 360
 ccttcccttg gaccaccttc atgttagttg ggtattataa ataagagata caaccatgaa 420
 tatattatgt ttatacaaaa tcaatctgaa cacaattcat aaagatttct cttttataacc 480
 ttcctcactg gcccctcca cctgcccata gtcaccaa atctgtttta atcaatgacc 540
 taagatcaac aatgaagtat ttataaaatg tatttatgct gctagactgt ggggtcaa atg 600
 tttccatttt caaattattt agaattctta tgagttttaa atttgtaaat ttctaaatcc 660
 aatcatgtaa aatgaaactg ttgctccatt ggagtagtct cccacctaaa tatcaagatg 720
 gctatatgct aaaaagagaa aatatggtca agtctaaaaa ggctaattgt cctatgatgc 780
 tattatcata gactaatgac atttatcttc aaaacaccaa attgtcttta gaaaaattaa 840
 tgtgattaca ggtagagaac ctcggccgcg accacgct 878

<210> 83
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 83
 acaaacatth taaaaaaaag aacattacca atatcagtgg cagtaagggc aagctgaaga 60
 ataaatagac tgagttttccg ggcaatgtct gtcctcaaag acatccaaac tgcgttcagg 120
 cagctgaaac aggcttcttt cccagtgaca agcatatgtg gtcagtaata caaacgatgg 180
 taaatgaggc tactacatag gccagtttaa caaactcctc ttctcctcgg gtaggccatg 240
 atacaagtgg aactcatcaa ataattttaa cccaaggcga taacaacgct atttcccatc 300
 taaactcatt taagccttca caatgtcgca atggattcag ttacttgcaa acgatcccgg 360
 gttgtcatatc agatacttgt ttttacacat aacgctgtgc catcccttcc ttcactgccc 420
 cagtcagggt tctgttgtt ggaccgaaag gggatacatt ttagaaatgc ttccctcaag 480
 acagaagtga gaaagaaagg agaccctgag gccaggatct attaaacctg gtgtgtgcgc 540
 aaaaggagg gggaaggcag gaatttgaaa ggataaacgt ctccttttgcg ccgaggaatc 600
 aggaagcgtg actcacttgg gtctgggacg ataccgaaat ccggt 645

<210> 84

<211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 270, 284
 <223> n = A,T,C or G

<400> 84
 tctgatgtca atcacaactt gaaggatgcc aatgatgtac caatccaatg tgaaatctct 60
 cctcttatct cctatgctgg agaaggatta gaagggttatg tggcagataa agaattccat 120
 gcacctctaa tcatcgatga gaatggagtt catgggctgg tgaaaaatgg tatttgaacc 180
 agataccaag ttttgtttgc cacgatagga atagctttta tttttgatag accaactgtg 240
 aacctacaag acgtcttggg caactgaagn tttaatatcc acanggggtt attttgcttg 300
 g 301

<210> 85
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 20, 240
 <223> n = A,T,C or G

<400> 85
 agcgtgggtc gcggcncgan gtagagaacc gactgaaacg tttgagatga agaaagttct 60
 cctcctgatc acagccatct tggcagtggtc tgttgggttc ccagtcctctc aagaccagga 120
 acgagaaaaa agaagtatca gtgacagcga tgaattagct tcagggtttt ttgtgttccc 180
 ttacccatat ccatttcgcc cacttccacc aattccattt ccaagatttc catgggtttan 240
 acgtaatttt cctatttcaa tacctgaatc tgccccctaca actccccctc ctagcg 296

<210> 86
 <211> 806
 <212> DNA
 <213> Homo sapiens

<400> 86
 tctacgatgg ccatttgctc attgtctttc ctctgtgtgt agtgagtgc cctggcagtg 60
 tttgcctgct cagagtggcc cctcagaaca acagggtctg ccttggaaaa accccaaaac 120
 aggactgtgg tgacaactct ggtcaggtgt gatttgacat gagggccgga ggcgggttgc 180
 gacggcagga ctggagaggc tgcgtgcccg gcactggcag cgaggctcgt gtgtccccc 240
 ggcagatctg ggcactttcc caaccaggt ttatgccgtc tccagggaag cctcggtgcc 300
 agagtgggtg gcagatctga ccatccccac agaccagaaa caaggaattt ctgggattac 360
 ccagtcccc ttcaaccag ttgatgtaac cacctcattt ttacaaata cagaatctat 420
 tctactcagg ctatgggctt cgtcctcact cagttattgc gagtgttgc gtccgcatgc 480
 tccgggcccc acgtggctcc tgtgctctag atcatggtga ctccccgcc ctgtggttg 540
 aatcgatgcc acggattgca ggccaaattt cagatcgtgt ttccaaacac ccttgcctgt 600
 ccttttaatg ggattgaaag cacttttacc acatggagaa atatatattt aatttgtgat 660
 gcttttctac aaggtccact atttctgagt ttaatgtgtt tccaacactt aaggagactc 720
 taatgaaagc tgatgaattt tctttctctg ccaacaagt aaaataaaaa taaaagtcta 780
 tttagatggt gaaaaaaaa aaaaaa 806

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<210> 87
 <211> 620
 <212> DNA
 <213> Homo sapiens

<400> 87
 tttttgcatc agatctgaaa tgtctgagag taatagtttc tgttgaattt ttttttgttc 60
 atttttctgc acagtccatt ctgtttttat tactatctag gcttgaaata tatagtttga 120
 aattatgaca tccttcctct ttgttatattt cctcatgatt gctttggcta ttcaaagtgt 180
 attttagttt catgtaaatt ttigaattgt attttccatt attgtgaaaa tagtaccact 240
 gcaattttta taggaagttt attgaatcta tagattactt tggataatat ggcacttcaa 300
 taatattcat gttttcaatt catagacaaa atattttaaa atttatttgt atcttttcta 360
 atttttcctt tttttattgt aaagattttac ctccctgggtt aatatatttcc tcagaaaattt 420
 attatttaag gtatagtcaa taaaattttt ttccctctatt ttgtcagata gtttaagtgt 480
 atgaaaccat agatatactt gtatgttaat tttataattt gctaatttac tgagtgtatt 540
 tattagttta gagaggtttt aatgtactgt ttatggtttt ttaaataataa gattacttat 600
 tttttaaaaa aaaaaaaaaa 620

<210> 88
 <211> 308
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 189, 194, 206, 238, 296
 <223> n = A,T,C or G

<400> 88
 tagctgtgnt cagcaggccg aggttttttt tttttttgag atggagtctc gccctgtcac 60
 ccaggctgga gtgcagtggc ctgatctcag ctccactgcaa gctccacctc ctggattcac 120
 gctattctcc tgccctcagcc tcccaagtag ctgggactac aggcgcccgc caccacgccc 180
 agctaattnt ttgnattttt agtacnagat gcggtttcat cgtgttagcc agcatggnc 240
 cgatctcctg acctcgtgaa ctgcccgcct cggcctccca aagacctgcc cgggcnggcc 300
 gctcgaaa 308

<210> 89
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 448
 <223> n = A,T,C or G

<400> 89
 agcggccgcc cgggcaggctc tgttaagtaa catacatatc accttaataa aaatcaagat 60
 gaaatgtttt agaaactatt ttatcaaaaag tggctctgat acaaagactt gtacatgatt 120
 gttcacagca gcaactattaa tgccaaaaag tagacaaaac ctaaatgtcc attactgat 180
 aagcaaaatg tggatatatcc atacaatgga atattatgta gccacaaca tggcatggag 240
 tactacaaca tggatgagcc tcaaaaacgt tatgctaaat gaaaaaagtc agatatagga 300
 aaccacatgt catatgatcc catttatatg aaatagccag aaaaggcaag tcatagaaac 360

```

aagatagatc ggaaaatggg ttggaggact acaaattggca ccagggatct ttgaagttga 420
tggaaatggg ctaaaatcag actgtggntg tggttgaaca agtctgtaaa ttaccacaaa 480
tgcgttaata ca 492

```

```

<210> 90
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 106, 184, 206, 209, 234, 314
<223> n = A,T,C or G

```

```

<400> 90
tcgagcggcc gcccgggcag gtacaagctt tttttttttt tttttttttt ttttctaaca 60
gttctctgtt ttattgcaat acagcaaagt ctggttaata ttaagngata tcaacataaa 120
gtattggtga ggagtccttt gtgacatttt ttaccatccc accttaaata tttctgtgca 180
aaanaatcca catcattggt tgggtancana ggatctctta aaaagttccc taanacactg 240
agggcataaa accaaacaaa ataaaataag gagtgatagg ctaaagcagt atcttcccct 300
ccatccacat ttgncaagca ttatatctta accaaaaaat gatcacacca ggccatgcaa 360
aactgtccaa tattaccgag aaaaaaccct 390

```

```

<210> 91
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 91
agcgtggctg cggccgaggt ctgtcaatta atgctagtc tccaggattta aaaaataatc 60
ttaactcaaa gtccaatgca aaaacattaa gttggtaatt actcttgatc ttgaattact 120
tccgttacga aagtccttca catttttcaa actaagctac tatatttaag gcctgcccgg 180
gcggccgctc ga 192

```

```

<210> 92
<211> 570
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 519, 559
<223> n = A,T,C or G

```

```

<400> 92
agcgtggctg cggccgaggt ctgacaacta acaaagaagc aaaaactggc atcttggaca 60
tcctagtatt acatttgcaa gcaattagaa cacaaggagg gccaaggaaa aagtttagct 120
ttgaatcact tccaaatcta ctgattttga ggttccgcag tagttctaac aaaacttttc 180
agacaatggt aactttcgat taagaaagaa aaaaacccca aacatcttca ggaattccat 240
gccaggttca gtctcttcca gtgagcccgc ttgctaaaag tccacgtgca ccattaatta 300
gctgggctgg cagcaccatg taaaaagaag cctattcacc accaaccaca cagactagac 360
atgtaaaagta ggatcaagta atggatgaca accatggtcg tggaatatgg tcaatgagag 420
tcagaaaagt acaggcacca gtacaagcag cagataacag aattgacggg ccaaaggata 480
aaaataggct tatttaaata ggatgctaca gaacacatnc acttctaatt ggaagctgct 540

```

ttacactggg tggcattgna ccatatgcat

570

<210> 93

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 328, 389

<223> n = A,T,C or G

<400> 93

```
tcgagcggcc gcccgggcag gtccagggtt ttatttagtt gtgtaatctt ggacaagtta 60
cctaactttt ttgagtctga atatatTTaa tctgcaaaat gagaatcatg ataatacgtc 120
ataggcttaa ttaggaggat taaatgaaat aatttatagg tggtgccatg gttacataca 180
agtattagta gttaattctt ttcctttgtt tacttttata gtataggttg gatgaagggt 240
ccagtatagg caaaaatact acttgggggt aaagtagagt gtgatacttt atttgaaatg 300
ttccctgaat ctgatcttta ctttttgnta ctgctgcact acccaaatcc aaattttcat 360
cccaacattc ttggatttgt gggacagcng tagcagcttt tccaatataa tctatactac 420
atcttttctt actttggtgc tttttg 446
```

<210> 94

<211> 409

<212> DNA

<213> Homo sapiens

<400> 94

```
cgagcggccg cccggggcagg tccatcagct cttctgctta gaatacgagg cagacagtgg 60
agaggtcaca tcagttatcg tctatcaggg tgatgaccca agaaagggtga gtgagaagggt 120
gtcggcacac acgcctctgg atccacccat gcgagaagcc ctcaagttgc gtatccagga 180
ggagattgca aagcgccaga gccaacactg accatgttga aggcgttctc tccaggctgg 240
attcactgca ctcggaagaa ttctgcccag ggaatttagt gtgggggtac caggaccagt 300
ttgtcttgat cttgagaccc ccagagctgc tgcattccata ggggtgttgca ggactacacc 360
tggcctgcct tgcagtcatt ctttcttata tgttgaccca tttgcccaa 409
```

<210> 95

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 486

<223> n = A,T,C or G

<400> 95

```
tcgagcggcc gcccgggcag gtccactttg tttgcagctt ccacacactg cacctaccta 60
ctacctctct tccatgctta actgggttta gaaagggtgag ctatgcgtag aagaactact 120
tgggatattc aagtgtctgta tttgaacgat aagcctatag ataacagtct gaagctgcaa 180
gggagacttt gttagtacac tactataaac aggtaaacta cctgtttgta cttgatatag 240
tgcatatgaa atgactgatt taatacaaaa ctacagaaca tgcaaaattt tttctgagat 300
gttaagtatt acttcagtgg agaacaaaac ttacttaacc tttcgctaata gcatgtagta 360
ccagaaagca aacatggttt tagcttcctt tactcaaaat atgaacatta agtgggttgtg 420
```

aattttgtct gccaaagtgg tcaaaaaata cattataaat aacctaaagt aaaaaaaga 480
aactgngaac 490

<210> 96
<211> 223
<212> DNA
<213> Homo sapiens

<400> 96
agcgtgggtcg cggccgaggt ctggaagccc accctaggac ttgaatggca ccttgtcctt 60
tctctgccag taatgcaatc caacacaata tgctacaggg aaaacagaat ttccacgggtg 120
ccgccctctg gtacaagggg aacagcacgc aaagcaaaaag gccacagagg gctccctgag 180
aatccagtac aactaagcga ggacctgccc gggcgggccgc tcg 223

<210> 97
<211> 527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 404, 436, 451, 476
<223> n = A,T,C or G

<400> 97
tcgagcggcc gcccgggcag gtctgtgcag gagacactga agtgggtagt gtccataatc 60
tttttagcct gttgctgaaa ttccagttgt actccttcaa accaaaatgc ttacaggatc 120
atgggaaagc ctcggttgca gaaatcaaga caggcaagtg ggaagataac tcggctttga 180
ggttaaacag atctgggttc aaagcatagt ttactctct gtcttgtaga gtgtcctggg 240
tgaagtcatt tcctctcttg aatttcagag aggatgaaaa tataaaaagt ataataacta 300
tcttcataat ctttgtgagg attaaagaag acgaagtgtg tgaaaagcta agcacagagc 360
aggcattcta caataagtag ttattatatt tggaaccatc ccgnccctag ccccgagcca 420
attaccttct cttagnctct tcatatcgaa ngccgtaatc ttgaccttct cttgcnactg 480
gattgggtgct ggttgatgcc caaacttccc gagatgctgt ctgggaa 527

<210> 98
<211> 514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 455
<223> n = A,T,C or G

<400> 98
tcgagcggcc gcccgggcag gtctggctcc catggccctt ggggtggcct gactctgtca 60
ctattcctaa aaccttctag gacatctgct ccaggaagaa ctttcaacac caaaattcat 120
ctcaatttta cagatgggaa aagtgattct gagaccagac cagggtcagg ccaaggatcat 180
ccagcatcag tggctgggct gagactgggc ccagggaacc ctgtctgctc ctctttttcc 240
cagagctgtg agttctctag ccaaggctgc actcttgagg gagagccagg aagcatagct 300
gaggccatga caacctcact cttcacctga aaatttaacc cgtggcagag gatccaggca 360
catataggct tcggagccaa acaggacctc ggccgcgacc acgctaagcc gaattccagc 420
aactggcgg ccgttactag tggatccga gcttnggtac caagcttggc gtaatcatgg 480

1007632007

gcatagctgg ttcctggggg gaaaatggta tccg

514

<210> 99

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 430, 522

<223> n = A,T,C or G

<400> 99

```
tcgagcggcc gcccgggcag gtctgaagaa acaggtataa atttggcagc cagtaatttt 60
gacagggaag ttacagcttg catgacttta aatatgtaaa ttgaaaata ctgaatttcg 120
agtaatcatt gtgctttgtg ttgatctgaa aaatataaca ctggctgtcg aagaagcatg 180
ttcaaaaata ttttaattcac ttcaaaatgt catacaaatt atgggtggtt ctatgcaccc 240
ctaaagcttc aagtcattta gctcagggtac atactaaagt aatatattaa ttcttccagt 300
acagtgggtg ttcataccat tgacatttgc ataccctaga ataatttaag aaagacatgt 360
gtaaatattca caatgttcag aaaagcaagc aaaagggtcaa ggaacctgct ttggttcttc 420
tggagatggn ctcatatcag cttcataaac attcattcta caaaatagta agctaaccat 480
ttgaacccca atttccagat taagcatatt ttctcataaa tnatgaagcc 530
```

<210> 100

<211> 529

<212> DNA

<213> Homo sapiens

<400> 100

```
agcgtgggtc cgcccgaggt ccaggcacgg tggcttatgt gtgtaatccc agcacttggg 60
gaggctgagg gaggtggatc acttgagtc aggagtttga gaccagtctg ggcaacatgg 120
cgaaacttca tctactacca agaagaaaaa aattagccag gtgtggtggt gtatgcctgt 180
agtcccagat actctggtgg ctgagggtgag aggatagctt gagcccagga aattgaggct 240
gcagtgaact atgattgcac tactgtgctc cagcttgggc aacagagtga gatcttgtct 300
ccaaaagtcc ttgaaggatt ttaggaagtt gttaaaagtc ttgaaacgat gtttgggggc 360
atgttagggg tcttgaatgt ttaattcctc taataactgc ttattcaaga gaagcatttc 420
tgactgggtg cggggcagtg gcttcatgcc ccataatccc agtactttgg gaggctgaag 480
caggaacatt gcttgagccc aggacttcaa gaacagcctg ggtaacata 529
```

<210> 101

<211> 277

<212> DNA

<213> Homo sapiens

<400> 101

```
tcgagcggcc gcccgggcag gtcgcaggaa gaggatggaa actgaggagt ccaggaagaa 60
gagggaacga gatcttgagc tggaaatggg agatgattat attttggatc ttcagaagta 120
ctgggattta atgaatttgt ctgaaaaaca tgataagata ccagaaatct gggaaggcca 180
taatatagct gattatattg atccagccat catgaagaaa ttggaagaat tagaaaaaga 240
agaagagctg agaacagacc tcggccgcga ccacgct 277
```

<210> 102

<211> 490

<212> DNA

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<213> Homo sapiens

<400> 102

```
gcgtggtcgc ggccgaggtc tgacggcttt gctgtcccag agccgcctaa acgcaagaaa 60
agtcgatggg acagttagag gggatgtgct aaagcgtgaa atcagttgtc cttaatTTTT 120
agaaagattt tggtaactag gtgtctcagg gctgggttgg ggtccaaagt gtaaggaccc 180
cctgccctta gtggagagct ggagcttggg gacattaccc cttcatcaga aggaattttc 240
ggatgttttc ttgggaagct gtttttgtcc ttggaagcag tgagagctgg gaagcttctt 300
ttggctctag gtgagttgtc atgtgggtaa gttgaggtta tcttgggata aagggctctt 360
tagggcacia aactcactct aggtttatat tgtatgtagc ttatatTTTT tactaagggtg 420
tcaccttata agcatctata aattgacttc tttttcttag ttgtatgacc tgccccgggc 480
ggccgctcga 490
```

<210> 103

<211> 490

<212> DNA

<213> Homo sapiens

<400> 103

```
gagcggccgc ccgggcaggt ccaaaccagc ttgctcataa gtcattaacc aaatccatta 60
taggtaattt gttcagttca atgtttacaa tctttatgga aaaaattagc aacacacaca 120
tttaaaacgt gtgcatttac ctttgcgtag gtgcttaaaa tacatatTTT tatttcaaga 180
tgacatttaa aaattattct aatatatcag cagcaaaaat ataatttgca attacaaaaa 240
actaaactag aatccttaag ttattctcat gtttacagtt gtgattcttt aataaatact 300
attatgcagc tctattgttt aagctttctg gatttggttt aaacacatgc atatatattg 360
tcaattgtgg gaagctttac aagttatatt ccatgcactt tttggacaga gttctaacag 420
agccagccag tccacaaaac aggcaagaca aaagttgaat taactggggc aaaataggac 480
tcttatgcaa 490
```

<210> 104

<211> 489

<212> DNA

<213> Homo sapiens

<400> 104

```
cgtggtcgcg gccgaggtcc aggctggtct cgaactcctg accttgtgat ctgcccgcct 60
cggcctccca aagtgttggg attacaggca tgagccactg cgcccgaccg agttgaacat 120
ttaatgtcag actaggccag agttttctcaa tctttttatt ctcaacttccc aaaggagccg 180
ttggagattt tcccccaaat ctctctcctt catgaaattt cataccacaa atatatgtatg 240
ttttatttat gtactgtgac cctttgaagg atcacaaacc aatataatag tttttctttt 300
taaccgcgtc aggaccaagt ttttgcccct gttggaaatg cataaactgg actgatgaat 360
tggtatagat ggctttttatc atgaggatca gaaaaacttg aaattccttg gctacgacac 420
tccatattta tcaccgtata gggaggacct tggatatggg aagtagaaac acttctacac 480
tttacagca 489
```

<210> 105

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 142, 453

<223> n = A,T,C or G

100622992007

<400> 105
 gcgtggtcgc ggccgaggtc tgactggcctt cagccccaga agttgagctg gccttttagac 60
 aaaataattg cacctccctc tgctgcttat tcccttccgt ttttcatttg agtgtgaaca 120
 gttagataaa atctgtggct gnctcttcca ccttgctcta gtttccattg ctgtgagcag 180
 gccctcctat gccccgcatt tagctacaat gctgtggact cacttgattc tttttctccg 240
 agctttgtct agaaatatgt gaaggtgagg ttaagtgtt ctctgtgtag atccacttag 300
 ccctgtctgc tgtctcgatg ggctgtgctt cgtctctcct ctcttccatc ctttccattt 360
 gcttctcacc accttctggc ttcttttctt aatgcaataa aggcagtttc taacaaagaa 420
 agaatgtggg ctttgaggtt agacagacct ggntttaaatt tctgcttctg gctctccaa 479

<210> 106
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 106
 tcgcggccga ggtccaaaac gtggattcca atgacctgcc ttgagcccg c ggttgccagg 60
 agttggacct gcagtagtat gggaaagctca cggcctaaat accgactgcc ctctgacccc 120
 accgtccagc gattctagaa catttctagt aggaaagaca tagcaaggga ttttcatgat 180
 tgggaaatac tgggagacaa gctgaagatt tgttaagggc tatgcttctg tcatctttta 240
 ggtattttaag gctactcctt tagctagcta ctttgagctg tttaaagtga ctatctccct 300
 acacagagtt acacaatgag catctctgaa agagaatatt accctggatt tccaaagatg 360
 tactctaaca ggatgaccag gcaaaaagggtg acccggggga ggagtctgtt ataacactcg 420
 gaccacatg ttctcaaggc acttcagaac tttgggaaat cattttgtac cggatcctca 480
 gaaagcattt atggaaatac acatccttta g 511

<210> 107
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 107
 ggccgcccgg gcaggtccag aatatcaaatt caaaagggtca caaatgttca cttcctcctc 60
 caccctctta catattggat cttcaattgc aataggaggt gtaagatggg catttttagag 120
 acgtagtgtc atcagcagaa gcaaacccat cttatacaaa tgggttttgg ggataggaaa 180
 aggtgtctaa aaattcacaa gtcaccattc cccagaagca atgaatagcc gtagaagacc 240
 aagggaagatc aacaagtttc caaagtgtc aagccagaga tttggccctt ccaaaataacc 300
 accaggacgc ctggaccctg gggctctccg catgtcacca ctgactgcca ggatgctgct 360
 gcacctccct tccttgagac acaacagaga gacagtgaag tcacccaaga ctgggatcat 420
 cagaggctcc tcatgcttgc tacagagaag c 451

<210> 108
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 108
 ccgcccgggc aggtcctgaa aacattcaga ctaatcaaaa tgggtactact gtaacttctt 60
 ataatacata atataaaagt ttttgaaaaga tatagacaca attaacccct aaacaacaca 120
 ctatctgatt ctcaaaagca atggctatctt aacaagatgt aaaaggacaa taacatatca 180
 aagaactttt acacacctaa agatagcatt tagcagcaag ttagtcagac aaaacaaaca 240
 caaataattt cacatttctt atgtttgttt ttaactttac ttcataaagc cactgataat 300
 tgagggtttct ttcaagtata agatttctaa aattaaaaac tgtttttgac atatttttat 360

aaagaaataa aaagcaaaac gcaatccaac tatttatatg agtccctctt ctccaacagc 420
 ttttagatggt tttctgagta cttttttaca cagaatattt t 461

<210> 109
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 109
 ggccgcccgg gcaggtctga ttataagaga aagaaatcca gtgacacgag ggcaggcagg 60
 ccccgctctg ctctgatcga gaaaagcttc ctgatgtcag ggagatggaa ctgccaccat 120
 cagaaccatg gcactttggg tgaaggtgtg tcagcgacca agggggcagg aaatgggcag 180
 tgactaaggg ggcaggaaac aggcaggcac atggcaaggt tctcccagcc catcagccca 240
 gtgatggcct cgattttgaa gctgcactac tgtctgaaaa gcacaattac tggtgactct 300
 taacaaactt cagcatactg ggggaaggaga ctgtcaagta actgaattgg aaagatgaaa 360
 aagaaccatc tctaaaagtt gatgcttgtc agaagaataa cctcctttgt gcaagtcttg 420
 caacatcttc attcaaccac a 441

<210> 110
 <211> 451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 260, 361
 <223> n = A,T,C or G

<400> 110
 ggtcgcggcc gaggtctggg gaaggggtga gaatccctgg gccttgccca gtcctgagct 60
 ctgggtgtct gcagggaagc acagtgggtga gttagtgtta aagaaagcat ccagagaggt 120
 aagaggggct tgggtagcac cctttgcctc tgtcacttcc gcaaaaactt cttgttgagg 180
 aggaagatga gaaggttgac attgactttg gccttggtga agagtttcat gacagccaca 240
 ccctcatact ggagctgcan gagatcctga tagtgaagct tgaaatcgct ccatgtccac 300
 acccaggaac ttggcattta cttcaaactt tctgcctca tctcccggcg tgatgtcaaa 360
 natgacgttt cttgaagtga gaggcgggaa agatcttcaa tttccaccaa agacaccctt 420
 tttccaggaa gcttgagcaa caagtgtaat g 451

<210> 111
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 33, 36, 79, 105, 111, 133, 149, 186, 206, 220, 239, 245,
 259, 336, 375, 383, 393
 <223> n = A,T,C or G

<400> 111
 ggccgacgtt cgacctgact tctttngagc agntgncact acccgtcttg aggaatgccg 60
 actgcagaca gtggcccang gcaaagagtg tgcgtcatcg atganattgg naagatggag 120
 ctcttcagtc agnttttcat tcaagctgnt cgtcagacgc tgtctacccc agggactata 180
 atcctnngca caatcccagt tcctanagga aagccactgn ctcttgtaga agaaatcana 240

```

cacanaaagg atgtgaacng tgtttaatgt caccaaggga aaacatgaaa ccaccttctg 300
ccagatatcg ggacgttgcg tgcagatcaa gcacgnaagt gaagacgcgt gcattccttg 360
ccttccgtga acgantgccc agntcaagaa gancctgatg gaaccct 407

```

<210> 112

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 363

<223> n = A,T,C or G

<400> 112

```

tcgcggccga ggtcggccga ggtctgacat ctgttgtctg tgataaccac ttctgtattg 60
cgtcttaacc acttctgtat tgtgtggttt taactgccta aggcggcaat gggcagtggg 120
cccccttccc ttaggatggg tatcaattca acaatattta taaggcattt actgtgtgct 180
aagcatttg aagacccagg ctacaaaata agacatagtt cctgccctcc aggccagcag 240
agggaggcac aaatacccag gaatctctga tgggtgtgaa gtgcggtcgt gggccacaga 300
aaatgaccgt catggagacc ctgctaaagg tcggaccctg agcccaaagg ggtattcaga 360
agnngagatg attttggccc cactcataga tgggtggcaa a 401

```

<210> 113

<211> 451

<212> DNA

<213> Homo sapiens

<400> 113

```

gtcgcggccg aggtccatat taaaaagtcc atcataaaca aagactcctc ctcatgggat 60
gaatatgctc catatgcccc taatggtgca taacggactt agaaattcca atgagtctta 120
gggttgaaat ttccaatgac ctgagcaagg cagctcccta tagcttctgg ataacatttt 180
acaccagag ttccagctta aacagacctt tcaacacaat tattttcgga ttgtctgtct 240
agaaaacggc aatgctcaaa ggaatataaa taagggtggg gggacatatg cttccagcct 300
ggcctttctc catgtggtaa aaaacaatgg aatggctgtg ttaatttttt ttaaatcttt 360
tctgaccttt actatgtttg gtaatggaaa taagtcaggg aaaacaaaat gaacaggtct 420
catcacttaa ttaatactgg gttttcttct t 451

```

<210> 114

<211> 441

<212> DNA

<213> Homo sapiens

<400> 114

```

ggccgcccgg gcaggtccat cctgtcagag atgggagaag tcacagacgg aatgatggat 60
acaaagatgg ttactttct tacacactat gctgacaaga ttgaatctgt tcatttttca 120
gaccagtctc ctgggtccaaa aattatgcaa gaggaagggtc agcctttaaa gctacctgac 180
actaagagga cactgttggt tacatttaat gtgcctggct caggtaacac ttacccaaa 240
gatatggagg cactgctacc cctgatgaac atgggtgatt attctattga taaagccaaa 300
aagttccgac tcaacagaga aggcaaaca aaagcagata agaaccgtgc ccgagtagaa 360
gagaacttct tgaaacttga cacatgtgca aagacaggaa gcagcacagt ctcggcggga 420
ggaagaaaaa aagaacagag a 441

```

<210> 115

<211> 431
 <212> DNA
 <213> Homo sapiens
 <220>
 <221> misc_feature
 <222> 317
 <223> n = A,T,C or G

<400> 115
 gccgccggg caggtccatt ggcggtgaca aaaggaaaag aagcaaagag actcagtcca 60
 taatgctgat tagttagaag aaagggctag gattgagaaa gtaccaggaa cttttaatta 120
 tttaaaagag aatgctgact gttaatgttt taaatcttac tgttcaaagt tactaatatg 180
 aatttttacc ctttgtgcat gaatattcta aacaactaga agacctccac aatttagcag 240
 ttatgaaagt taaacttttt attataaaaa ttctaaacct tactgtcctt ttaccaggaa 300
 catgacacac tatttancat cagttgcata cctcgccaat agtataattc aactgtcttg 360
 cccgaacaat catctccatc tggaagacgt aagcctttag aaacacattt ttctattaat 420
 ttctctagaa c 431

<210> 116
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 116
 gtcgcggccg aggtccagaa atgaagaaga agtttgcaga tgtatttgca aagaagacga 60
 aggcagagtg gtgtcaaatac tttagacggca cagatgcctg tgtgactccg gttctgactt 120
 ttgaggaggt tgttcatcat gatcacaaca aggaaccggg gctcgtttat caccagttag 180
 gagcaggacg tgagcccccgc cctgcacct ctgctgttaa acaccccagc catcccttct 240
 ttcaaaaagg atccttttcat aggagaacac actgaggaga tacttgaaga atttggattc 300
 agcccgcgaa gagattttatc aagcttaact cagataaaat cattgaaagt aataaggtaa 360
 aagctaagtc tctaacttcc aggccccacgg ctcaagtga tttcgaatac tgcatttaca 420
 g 421

<210> 117
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 117
 agcgtggtcg cggccgaggt aaggctgcga ggttgtggtg tctgggaaac tccgaggaca 60
 gagggctaaa tccatgaagt ttgtggatgg cctgatgac cacagcggag accctgttaa 120
 ctactacgtt gacactgctg tgcgccacgt gttgctcaga cagggtgtgc tgggcatcaa 180
 ggtgaagatc atgctgccct gggacccaac tggtaagatt ggccctaaga agcccctgcc 240
 tgaccacgtg agcattgtgg aacccaaaga tgagatactg cccaccaccc ccatctcaga 300
 acagaagggt gggaagccag agccgcctgc catgccccag ccagtcccca cagcataaca 360
 ggggtctcctt ggcagacctg cccgggcggc cgctcgaaag cccgaattcc agcacactgg 420
 cggccgttac tagtggatcc cagctcggta ccaagcttgg cgtaatcatg gtcataagctg 480
 gtttcctgt 489

<210> 118
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 118
 tcgagcggcc gcccgggcag gtattgaata cagcaaaatt ctatatacaa agtgacctgg 60
 acctgctgct tcaaaacatg atcctttctt actaatatct tgatagtcgg tccatagagc 120
 attagaaagc aattgactct taaataaaca gaaaagtgcc taatgcacat taaatgaatg 180
 gcctaactac tggaacttta gtagttctat aagggtgatta acataggtag gatccagttc 240
 ctatgacagg ctgctgaaga acagatatga gcatcaagag gccattttgt gcaactgccac 300
 cgtgatgcc atcgtgtttct ggatcataat gttcccatga tctgattcta gacacaccac 360
 aggaatatca gtgggggtcag aggttagctt agctgcttgc tgggctagaa cagatatcac 420
 tccagcatgc tcatctgaca ggggtcccgcg gcaacccaga ttaagtcctt gtgaatctgt 480
 gcacaggga 489

<210> 119
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 119
 taggttccag agacttttgg cccaggagga atatttactt ttagctctgg acatcattac 60
 aaaaaggaat atttcccaaa cctcttcaga ccgagaatac atgggtaaaa ttattaaata 120
 gttgtataat aaaaataatt ttttccttaa aaaaaaaaaa aacctcggcc gcgaccacgc 180
 t 181

<210> 120
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 422, 487
 <223> n = A,T,C or G

<400> 120
 gcgtggctgc ggccgaggtc catttaaaac aaagaaaaat actaaagcca ctagtaaaca 60
 tctgatgtgc aaaatacaac atcctctagt tggctttatg ccattattac ataagctcca 120
 aatagctcat cttaaattaa aaagaaaaag tggctgtccc atctctgctg cataaatcag 180
 attttttttt aaagggtttag agtactttta ggaagggaag ttcaaaactg ccagtgaat 240
 tcacagagaa tacaaattta gcaatttaat ttcccaaagc tctttgaaga agcaagagag 300
 tctctcttct taatgcagtg ttctcccaag aggaactgta attttgcttg gtacttatgc 360
 tgggagatat gcaaaatgtg tttttcaatg tttgctagaa tataatggtt cctcttcagt 420
 gnetgggttca tcttggaact catgggttaa gaaggacttc ttggagccga actgcccggg 480
 cgggccntt 489

<210> 121
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 121
 cgagcggccg cccgggcagg tggccagcgc tgggtccgcga gacgccgaga tggaggaaat 60
 atttgatgat gcgtcacctg gaaagcaaaa ggaaatccaa gaaccagatc ctacctatga 120
 agaaaaaatg caaactgacc gggcaaatag attcgagtat ttattaaagc agacagaact 180
 ttttgacatc ttcatcctac ctgctgctca gaagactcca acttcacctt tgaagatgaa 240

```

accagggcgc ccacgaataa aaaaagatga gaagcagaac ttactatccg ttggcgatta 300
ccgacaccgt agaacagagc aagaggagga tgaagagcta ttaacagaaa gctccaaagc 360
aaccaatggt tgcactcgat ttgaagactc tccatcgat gtaaaatggg gtaaactgag 420
agattatcag gtcccgagga ttaaactggc tcatttcttt gtatgagaat ggcatcaatg 480
gtatccttgc agatgaaatg ggcctaggaa agactcttca acaatttctc t 531

```

```

<210> 122
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 122
tcgagcggcc gcccgggcag gtctgccaac agcagaggcg gggcctccgg catcttcaaa 60
gcacctctga gcaggctcca gccctctggc tgcgggaggg gtctggggtc tcctctgagc 120
tcggcgacaa agcagatggt atttctctcc cgcgacctcg gccgcgacca cgct 174

```

```

<210> 123
<211> 531
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 152, 373, 482, 494, 496, 502
<223> n = A,T,C or G

```

```

<400> 123
agcgtgggtcg cggccgaggt cctcaaccaa gagggttgat ggcctccagt caagaaactg 60
tggctcatgc cagcagagct ctctcctcgt ccagcaggcg ccatgcaagg gcaggctaaa 120
agacctccag tgcatacaaca tccatctagc anagagaaaa ggggcaactga agcagctatg 180
tctgccaggg gctagggggt cccttgcaga cagcaatgct acaataaagg acacagaaat 240
gggggaggtg ggggaagccc tatttttata acaaagtcaa acagatctgt gccgttcatt 300
ccccagaca cacaagtaga aaaaaaccaa tgcttgtggt ttctgccaag atggaatatt 360
cctccttctt aanttccaca catggccggt tgcaatgctc gacagcattg cactgggctg 420
cttgtctctg tggctctgggc accagtagct tgggccccat atacacttct cagttcccac 480
anggcttatg gccnangggc angctccaat tttcaagcac cacgaaggaa g 531

```

```

<210> 124
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<400> 124
tcgagcggcc gcccgggcag gtccatctat actttctaga gcagtaaadc tcataaattc 60
acttaccaag cccaggaata atgactttta aagccttgaa tatcaactaa gacaaattat 120
gccaattctg atttctcaca tatacttaga ttacacaaag ataaagcttt agatgtgatc 180
attgtttaat gtagacttat ctttaaagtt tttaattaaa aactacagaa gggagtaaac 240
agcaagccaa atgatttaac caaatgattt aagagtaaaa ctcaactcaga aagcattata 300
cgtaactaaa tatacatgag catgattata tacatacatg aaactgcaat tttatggcat 360
tctaagtaac tcatttaagt acatttttgg catttaaaaca aagatcaaat caagct 416

```

```

<210> 125
<211> 199
<212> DNA

```


<213> Homo sapiens

<220>

<221> misc_feature

<222> 112, 160, 195

<223> n = A,T,C or G

<400> 125

```
agcgtggtcg cggccgaggt gctttttttt tttttttttt tttttttttt gctattctaa 60
aggggaaggc ccctttttat taaacttgta cattttactt tccttctttc anaatgctaa 120
taaaaaactt ttgtttatac ttaaaaaaac cataaatcan acaaacaaaa gaaacgattc 180
caacatcact tctgngatg                                     199
```

<210> 126

<211> 490

<212> DNA

<213> Homo sapiens

<400> 126

```
cgtggtcgcg gccgaggtcc agttgctcta agtggattgg atatggttgg agtggcacag 60
actggatctg ggaaaacatt gtcttatttg ctccctgcca ttgtccacat caatcatcag 120
ccattcctag agagaggcga tgggcctatt tgtttggtgc tggcaccaac tcgggaactg 180
gcccaacagg tgcagcaagt agctgctgaa tattgtagag catgtcgctt gaagtctact 240
tgtatctacg gtggtgctcc taagggacca caaatacgtg atttggagag aggtgtggaa 300
atctgtattg caacacctgg aagactgatt gacttttttag agtgtggaaa aaccaatctg 360
agaagaacaa cctaccttgt ccttgatgaa gcagatagaa tgcttgatat gggctttgaa 420
cccaaataa ggaagattgt ggatcaaata agacctgata ggcaaactct aatgtggagt 480
gcgacttggc                                     490
```

<210> 127

<211> 490

<212> DNA

<213> Homo sapiens

<400> 127

```
cgtggtcgcg gccgaggtcg gccgaggtct ggagatctga gaacgggcag actgcctcct 60
caagtgggtc cctgacccct gacccccgag cagcctaact gggaggcacc ccccgagcag 120
ggcacactga cacctcacac ggcagggtat tccaacagac ctgaagctga gggtcctgtc 180
tgtagaagg aaaactaaca agcagaaaagg acagccacat caaaaaccca tctgtacatc 240
accatcatca aagacaaaaa gtaaataaaa ccacaaagat gggaaaaaaa cagaacagaa 300
aaactggaaa ctctaaaaag cagagcacct ctctcttcc aaaggaacgc agttcctcac 360
cagcaatgga acaaagctgg atggagaatg actttgacga gctgagaaaa gaacgcttca 420
gacgatcaaa ttactctgag ctacgggagg acattcaaac caaaggcaaa gaagttgaaa 480
actttgaaaa                                     490
```

<210> 128

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 69, 106, 140, 152, 165, 196, 224, 233, 241, 258, 260, 267, 291, 347, 395

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<223> n = A,T,C or G

<400> 128

```

cgtgggtcgcg gccgaggtgc tttttttttt tttttttttt tttttttttt tgctgattta 60
ttttttctnt ttattgttac atacaatgta taaacacata aaacanaaaa cagtagggat 120
cctctaggat ctctagggan acagtaaagt anaaagaggt ctcanaaaca tttttttaaa 180
gtacaagaca ttcagngctc ggcccaaagg cgtaaaagggt ttanagccag canatagctg 240
nactaaaggc tccgtctntn tccccanagc caggacaacc ccaggagct ntccattagc 300
agccagtcca cgcaggcagg atgctgcgga aaaagctcta tgctganaac attccccttg 360
atggaaagaa gggcaacaca aaaggggtaa ctaanagctc cttcctctcg tgagggcgac 420
aactgaggaa cagaaaagga gtgtcccatg tcacttttga cccctccc 469

```

<210> 129

<211> 419

<212> DNA

<213> Homo sapiens

<400> 129

```

gcgtgggtgc ggccgaggtc tgattttcat ttaaataattt cagagctata gcatttgcct 60
ccatgctcaa atccacacca ttggggctta agccgctcat gccaacatta gcaaatagaca 120
tgcagtttaa tccagagatc actgcttctg ggctgatgca tgccaacaca ctggcgatgat 180
ccacgttatg tgcatTTTTT ttcacttttag tgggagaatc aatttttact ccaaggcttc 240
ttagttgctt aagagttgca ttaaggacac aatctttgtc caccagtctt gaatgatgtg 300
tttttttctt tgtatggtaa acgttttggg ttctggtgca ttcattgactg ataattactg 360
ctttggtaga cggctgctca agtttccttg gaggaactat ttaatagggtg ggttacttg 419

```

<210> 130

<211> 354

<212> DNA

<213> Homo sapiens

<400> 130

```

agcgtgggtc cggccgaggt ccatctgagg agataaccac atcactaaca aagtgggagt 60
gaccccgag agcacgtgt ggaattccat agttggtctc atccctggc agtttccaca 120
tgatgatggt cttatctcga gaggcggaga ggatcatgtc cgggaactgc ggggtagtag 180
cgatctgggt taccagccg ttgtggccct tgaggggtgcc acgaagggtc atctgctcag 240
tcatggcggc ggcgagagcg tgtgtcgctg cagcgacgag gatggcactg gatggcttag 300
agaaactagc accacaacct ctctgcccgc acctgcccgc gcggcccgc cgaa 354

```

<210> 131

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 421

<223> n = A,T,C or G

<400> 131

```

cgagcggccg cccgggcagg tctggcagca gcttcctctg gaataattga cagctttgtg 60
ctgcctgact aaaatttgaa atgacaaccg ctgaatgtaa aatgatgtac ctacaatgag 120
agagatttag gaatactatc tgtcaatcca tagatgtaga aacaaaacaa actacagaat 180
gaaaacaaac ttattttaaa ccaaagaaac aaatgtatcc aaaatatagt ccatgatata 240

```

```
<210> 132
<211> 474
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 403  
<223> n = A,T,C or G
```

```
<210> 133
<211> 387
<212> DNA
<213> Homo sapiens
```

```
<210> 134
<211> 401
<212> DNA
<213> Homo sapiens
```

<210> 135

<211> 451
 <212> DNA
 <213> Homo sapiens

<400> 135
 ggtcgcggcc gaggtctgtt cctgagaaca gcctgcattg gaatctacag agaggacaac 60
 taatgtgagt gaggaagtga ctgtatgtgg actgtggaga aagtaagtca cgtgggccct 120
 tgaggacctg gactgggtta ggaacagttg tactttcaga ggtgaggtgt cgagaaggga 180
 aagtgaatgt ggtctggagt gtgtccttgg ccttggctcc acaggggtgtg ctttcctctg 240
 gggccgtcag ggagctcatc ccttgtgttc tgccaggggtg gggtagcggg gtttgacact 300
 gagggaggta acctgctggc tggagcggca gaacagtggc cttgatttgt cttttggaag 360
 attttaaaaa ccaaaaagca taaacattct ggtccttcac aatgctttct ctgaagaaat 420
 acttaacgga aggacttctc cattcaccat t 451

<210> 136
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 136
 ggccgcccgg gcaggctctga atcacgtaga atttgaagat caagatgatg aagccagagt 60
 tcagtatgag ggtttttcgac ctgggatgta tgtccgcgtt gagattgaaa atgttccctg 120
 tgaatttgtg cagaactttg acccccttta cccattatc ctgggtggct tgggcaacag 180
 tgagggaat gttggacatg tgcagggtggg tccctttgct gcgtatttgg tgcctgaggc 240
 tctgtggatt tcccctccat caatcatctt accctctcat ccccctcaga tgcgtctgaa 300
 gaaacatctc tgggtataaga aaatcctcaa gtcccaagat ccaatcatat tttctgtagg 360
 gtggaggaag tttcagacca tcctgctcta ttatatccga agaccacaat g 411

<210> 137
 <211> 211
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 186
 <223> n = A,T,C or G

<400> 137
 cgccgcccgg ggcaggctcg gtggtgcggc ctccattgtt cgtgttttaa ggcgccatga 60
 ggggtgacag aggcggtggc cgtggtgggc gctttggttc cagaggaggc ccaggaggag 120
 ggttcaggcc ctttgcacca catatcccat ttgacttcta tttgtgtgaa atggcctttc 180
 cccgntcaa gccagcacct cgatgaaact t 211

<210> 138
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 138
 gccgcccggg caggctctggg ctggcgactg gcattccaggc cgtaactgca aatctatgct 60
 aggcgggggtc tcccttctgt gtgttcaagt gttctcgact tggattctta actattttaa 120
 aaaatgcact gagtttgggt taaaaaccaa ccacaaaat ggatttcaac acagctctaa 180
 agccaagggc gtggccggct ctccaacac agcgactcct ggaggccagg tgcccatggg 240

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```

cctacatccc ctctcagcac tgaacagtga gttgattttt cttttttacaa taaaaaaaagc 300
tgagtaatat tgcataaggag taccaagaaa ctgcctcatt ggaaacaaaa actattttaca 360
ttaaataaaa agcctggccg caggctgcgt ctgccacatt tacagcacgg tgcgatgcac 420
acggtgacca aaccacggag gcaagcttct ggcaatcaca ccacgacccg c 471

```

<210> 139

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 384

<223> n = A,T,C or G

<400> 139

```

gtcgcggccg aggtctgttc tttagctcag atttaaacct gctgtctctt ctttatttgc 60
agaatgaatt cccagttcct gagcagttca agaccctatg gaacgggcag aagttggtca 120
ccacagtgc agaaattgct ggataagcga agtgccactg ggttctttgc cctcccttca 180
caccatggga taaatctgta tcaagacggg tcttttctag atttcctcta cctttttgct 240
cttaaaactg cttctctgct ctgagaagca cagctacctg ccttcaactga aatataacctc 300
aggctgaaat ttgggggtggg atagcaggtc agttgatctt ctgcaggaag gtgcagcttt 360
tccatatcag ctcaaccacg ccgncagtc attcttaagg aactgccgac taggactgat 420
gatgcatttt agcttttgag cttttggggg gtattctacc aaccaacagt ccatttggaa 480
a 481

```

<210> 140

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 372

<223> n = A,T,C or G

<400> 140

```

gtcgcggccg aggtttccca ttttaagaaaa atagatcttg agattctgat tcttttccaa 60
acagtcccct gctttcatgt acagcttttt ctttacctta cccaaaattc tggccttgaa 120
gcagttttcc tctatggctt tgcccttctg attttctcag aggctcgagt ctttaataata 180
accccaaatg aaagaaccaa ggggaggggt gggatggcac ttttttttgt tgggtcttgtt 240
ttgttttgtt ttttggttgg ttgggttccg ttatttttta agattagcca ttctctgctg 300
ctatttccct acataatgtc aatttttaac cataattttg acatgattga gatgtacttg 360
aggctttttt gntttaattg agaaaagact ttgcaatttt ttttttagga tgagcctctc 420
c 421

```

<210> 141

<211> 242

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 6, 20, 31, 35, 39, 72, 94, 141, 142, 211, 222

CCCTTTTACAA TAAAAAAAAGC

<223> n = A,T,C or G

<400> 141

```
cgantngccc gcccgggcan gtctgtctaa nttntncang gaccacgaac agaaaactcgt 60
gcttcaccga anaacaatat cttaaacatc gaanaattta aatattatga aaaaaaacat 120
tgcaaaatat aaaataaata nnaaaaggaa aggaaacttt gaaccttatg taccgagcaa 180
atccaggtct agcaaacagt gctagtccta nattacttga tntacaacaa cacatgaata 240
ca 242
```

<210> 142

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15, 19, 32, 73, 110, 278, 405, 436, 473, 510

<223> n = A,T,C or G

<400> 142

```
agcgtggctcg cggcncgang tccacagggc anatattctt ttagtgtctg gaattaaaaat 60
gtttgagggt tangtttgcc attgtctttc caaaaggcca aataattcan atgtaaccac 120
accaagtgca aacctgtgct ttctatttca cgtactgttg tccatacagt tctaaatata 180
tgtgcagggg attgtagcta atgcattaca cagtcgttca gtcttctctg cagacacact 240
aagtgatcat accaacgtgt tatacactca actagaanat aataagcttt aatctgaggg 300
caagtacagt cctgacaaaa gggcaagttt gcataataga tcttcgatca attctctctc 360
caaggggccc gcaactaggc tattattcat aaaacacaac tgaanagggg attggtttta 420
ctggtaaatc atgtgntgct aaatcatttt ctgaacagtg ggggtctaaat cantcattga 480
tttagtggca gccacctgcc cggcgggccgn tcgaagccca attctgcaga tatccatcac 540
actggcggcc g 551
```

<210> 143

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 286, 498

<223> n = A,T,C or G

<400> 143

```
cgagnggccc gcccgggcag gtatcttcac aaactcaaca aaggcactac atgagacttc 60
acattcccct agtccaatag ctgacaaatt tttgcaacgt tctgcaatgc gaattaactc 120
ttcatcaagt ggccgtaatc catttgacac cactactagt tcaaccagtc tagggcatgt 180
cattcccaca cggccaagca catctttgct tactgatctc ccaaagtaca gatgggtggc 240
aggattttca tagcgaaaga aggggtcaaa ttcttcttca tataanaaaa aatacatcac 300
taagttcact ttgggtgaat gtctgatgaa agcatccag ctactcttct gaatagtatg 360
gaagtgtgtc tgtccaggat tctcactgac tacatcaatg cgcaaagtgt ctaatcgaac 420
atgtttttca gaagacaatg caagtaacaa ctcatcactc aataagtggg aagttcaggg 480
ctagttctct taagccgnga cactgatcag cacac 515
```

<210> 144

<211> 247

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 20, 42, 115, 152, 165, 181, 195, 208, 221
<223> n = A,T,C or G

<400> 144
tgcattctct ntggatgcan acctgcccgt tggtagggac tntgctcaca cggaacatgg 60
acggttacac ctgtgccgtg ggtgacgtcc accagcttct ggatcatctc ggcgnggggtg 120
ttgtggaagg gcagactatc cacctccatg cncacgatgc ccganacgcc actccggact 180
ntgtgctgca ccaanatgcc cagcattnta tcttcaagca nagcacttat caggggtcctt 240
ggcacac 247

<210> 145
<211> 309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 155, 247
<223> n = A,T,C or G

<400> 145
cgtgggtcgc ggccccgangt ctgctgtaac aaaacacccat agtctgggca gctcatagac 60
aatggaattt tatttctcac gcttctggag gctggattcc aagatcaagg ttccaggaga 120
ctcagtgtct ggcaaggctc cggtttctgc ctcanagatg gtgccatctg gctgtgtcct 180
cacaagtagg aagggtgcaag aagctcccct caggctctgt ctgtaagaca ctgatcccat 240
tcatganggg gaaacgtaat gacctaatca gccccagag accccacttc taacaccatc 300
accttgggg 309

<210> 146
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 16, 97, 154, 244, 275, 322, 347, 349, 352, 357, 449, 460, 472
<223> n = A,T,C or G

<400> 146
agcgtgggtc gcggcncgac gtccgtgtcca tatttcacag cccgagaact aatacaagat 60
getgacatca tattttgtcc ctacaactat cttctanatg cacaataaag ggaaagtatg 120
gattttaaate tgaaagaaca ggttgtcatt ttanatgaag ctcataacat cgaggactgt 180
gctcgggaat cagcaagtta cagtgtaca gaagttcagc ttcggtttgc tcgggatgaa 240
ctanatagta tgggtcaaca taatataagg aaganagatc atgaaccctt acgagctgtg 300
tgctgtagcc tcattaattg gntagaagca aacgctgaat atcttgnana angagantat 360
gaatcagctt gtaaaatatg gagtggaaat gaaatgctct taactttaca caaatgggt 420
atcaccactg ctacttttcc cattttgeng gtaagatatn ttttctacct gngaaacgta 480
tttaag 486

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<210> 147
 <211> 430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 26, 28, 289, 299, 352, 390, 399
 <223> n = A,T,C or G

<400> 147
 gccgcccggg cangttcgac attacntnga gttccatgat gtacaattct ttcacgaaaa 60
 acaatgaatg caagaatttg aggatctcct tactcctccc ttttacagat ggtctctcaa 120
 tcccttcttc ttctcttca tcttcatctt cttctgaacg cgctgccggg taccacggct 180
 ttctttgtct ttatcgtgag atgaagggtga tgcttctgtt tcttctacca taactgaaga 240
 aatttcgctg caagtctctt gactggctgt ttctccgact tcgcctttnt gtcaaacng 300
 agtcttttta cctcatgccc ctcagcttca cagcatcttc atctggatgt tnatttctca 360
 aagggtcac tgaggaaact tctgattcan atgtcgaana gcactgtgaa gttttctctt 420
 catcttgctg 430

<210> 148
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 24, 53, 55, 374, 381, 423, 431, 459
 <223> n = A,T,C or G

<400> 148
 cccgggcagg tctgtgttgn tttncaacgg gtgtcctccc cagcgtccag aananggaaa 60
 tgtggagcgg gtgatgatga cccctcgctg tctgtcacc tctgtcacag cttcgtatgt 120
 gggctctggc tgggaccacc cgtacaggtt gtgcacgttg tagtgctcca cgggggagct 180
 gtccggcagg atctgctgac tctccatgca cagagtcttg ctgctcaggc ccttgtccct 240
 agattccaaa tatggcatat aggggtgggggt tatttagcat ttcatgtctg cagcccctga 300
 cagatccatc cacaaaattt gatggctcat tcatatcaat ccacaatcca tcaaacttca 360
 agctcttctc tggntctcga nggtttgcat agaactcttc tatctctttc ttccaccacg 420
 canacctcgg ncgcgaccac gctaagccga attctgcana tatccatcac actggcggcc 480
 gct 483

<210> 149
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 359, 384, 402
 <223> n = A,T,C or G

<400> 149
 ctttcacgaa nacaatgaat gcaagaattt gaggatctcc ttactcctcc cttttacaga 60


```

tgggtctctca atcccttctt ctccctcttc atcttcatct tcttctgaac gcgctgccgg 120
gtaccacggc tttctttgtc tttatcgtga gatgaagggt atgcttctgt ttcttctacc 180
ataactgaag aaatttcgct gcaagtctct tgactggctg tttctccgac ttgcctttt 240
tgcaaacgtg agtcttttta cctcatgccc ctacagcttcc acagcatctt catctggatg 300
ttcatttctc aaagggtcct ctgaggaaac ttctgactca catgtcgaag aagcactgng 360
agtttctctt catttgctgc aaanttgtc tttgctggct gngctctcag accacccatt 420
tggtgcatg ggggctgac                                     439

```

```

<210> 150
<211> 578
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 4, 15, 260, 336, 371, 430, 461, 535, 572
<223> n = A,T,C or G

```

```

<400> 150
ggcncgcccc ggccangtcca ctccactttt gagctctgag ggaatacctt caggaggggac 60
aggggtcaggg agtcctggca gctccgcagc agagattcac attcattcag agacttggtg 120
tccagtgcga tgccattgat cgcaacgac ctgtctccca cagcaaggga cccttcttta 180
gcggcgaggc ttccaggcag cacagcggca gcatacactc cattctccag actgatgcca 240
ctgtctttct gtccactgan gttgatgtgc agcggcgtga ccaccttccc acccagggac 300
ttcctccgcc gcacgaccat gttgatgggc cccctnccca ttgaggagcg ccttgatggc 360
ctgcttcttg nccttggtga tgaagtccac atcggtgatt ctacagcca gtcattgacc 420
cttaagcggg catcagcaat gcttcctttg gccactttag ngacaaatat gccacagtcc 480
ccgggaaaca aggggtcatt acaccttctg gcatatcaaa cacctcggcc gggancacta 540
agccgaattc tgcagatatt catcacactg gngggccg                                     578

```

```

<210> 151
<211> 503
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 392, 464
<223> n = A,T,C or G

```

```

<400> 151
cgagcggccc gcccgggcag gtctgggaga tcagcgactg ctgccacgtg cccagaaatg 60
gctcgctcct tcaactacag ggaatgcaat gaggggtggg gagaagatga tgggtcgggt 120
atttcattcc ttttcttttt acaacttcac ttccagagac ttcagcgctc catgtctgct 180
gtgctgtgga acccagagtg ctcttgccct gatggctgag aatcccttgg accctggaag 240
cacctactcc atgatggccc ggtatagtgc aggtcaata taatcttccc ggtatcttga 300
gttgataact cgttgccggt tcttttcttg cttaacctct ttctctgtga aaatctcatt 360
gaagcgcatg tctgaagcta ctgacagtct anatttgact ctcttgggaa gctcttcatt 420
cagtgtgtat acatcatctc tcttaaccac aagttggagc catncttaaa cttcacctgg 480
tacatttggg tagggtggga ggc                                     503

```

```

<210> 152
<211> 553
<212> DNA

```

20070622 23092007

<213> Homo sapiens

<220>

<221> misc_feature

<222> 293, 432, 459, 481, 536

<223> n = A,T,C or G

<400> 152

```
agcgtggtcg cggcccgagg tccactgagc tccgccttcc ccgggctccc tgaggaagca 60
gagtcctgac ttccaggaag gacaggacac agaggcaaga actcagcctg tgaggctctg 120
ggtggctcct gaggccagag gacgccttcc gcgatccatg gctcagcatc gtccttctgg 180
cttcccagcc ccgggccgaa cgttcggggtt aataagcaga gcagttattc ggctcctggc 240
aggagctccc ccgttagttt ccacgttggtg agcacattca tacttaagac tgnittctctt 300
tgtgttttaa gcgtctgtct ctgtagtaaa ctgaaatgtt aacagaaatg cagacctgcc 360
cgggcggccg ctcgaaaaggc gaattctgca gatatccatc aactggcgg ccgctcgagc 420
atgcatctag anggcccaat tcgccctata gtgagtcgna ttacaattca ctgggcccgcg 480
ntttacaacg tcgtgactgg gaaaaccctg cggtacccac ttaatcgctt tgcagnacat 540
ccccctttcg cca                                     553
```

<210> 153

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 198, 307, 325, 347, 386, 389, 392, 415, 425

<223> n = A,T,C or G

<400> 153

```
tgcagcggtc cgcccgggca ggtccacctt gcatggctcc tctaaacacg caactcagcg 60
aggggacccc cttcacctct ggcaagagag ctgggtagat cagaaacttg gtgacacctg 120
gctagcacag agcaggctca cttgtcttgg tccactacc cagattcctg cagacattgc 180
aaaccaaata aaggttgntg aatgaccctt gtccccagcc acttgttttg gtatcatctg 240
ctctgcagtg gaatgcctgt gtgtttgagt tcaactctga tctgtatatt tgagtataga 300
aaccgantca agtgatctgt gcatncagac acactggggc acctgancac agaacaaatc 360
accttaacga tctggaatga aactgnganc antgcccgcg tgggtgggtc tgganaaact 420
gccgncttct tgttggacct tggccgcacc acct                                     454
```

<210> 154

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 19, 33, 37, 131, 377, 425, 439, 505

<223> n = A,T,C or G

<400> 154

```
agcgtggtcg cggcccgang gcggcctcct gantganggg aaggagcgtg ggggcggcca 60
cggcaggatt aacctccatt tcagctaata atgggagaga ttaaagtctc tcctgattat 120
aactggttta naggtacagt tccccttaa aagattattg tggatgatga tgacagtaag 180
atatggtcgc tctatgacgc gggccccgca agtatcaggt gtcctctcat attcctgccc 240
```

```

cctgtcagtg gaactgcaga tgtctttttc cggcagattt tggctctgac tggatggggg 300
taccgggtta tcgcttttgca gtatccagtt tattgggacc atctcgagtt cttgtgatgg 360
attcacaaaa cttttanacc atttacaatt ggataaagtt catctttttg gcgcttcttt 420
gggangcttt ttggcccaana aatttgctga atacactcac aaatctccta gaagccattc 480
cctaatactc tgcaattcct tcagngacac ctctatcttc aaccaacttg gactggaaac 540
agctttggct gatgcctgca tttatgctca aaaaatagtt cttggaaatt ttcac 596

```

```

<210> 155
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 12, 23, 44, 58, 86, 99, 279, 310, 319
<223> n = A,T,C or G

```

```

<400> 155
ctcganttgg cncgcccggg cangtctgcc tggtttttga ccngcgcgagc tatttagnct 60
ctggctctgt ttccggagct caaggnaaaa atcttgaana actcgagcag cttctgtgga 120
tagccttggg tacacatact gccgagcata gccaatgtac tttctcaata gctgggtggg 180
aatgggatct attgtttctc caggaaccac ctttagtctt tctgataatg gcttctcaga 240
aactacttca agtacggaag tatttgaatc ttgactatnc atacgagcta ctgtggcact 300
gctaattggg tctctgctnt ccagctctta ttgcaatcac atg 343

```

```

<210> 156
<211> 556
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 375, 530
<223> n = A,T,C or G

```

```

<400> 156
tcgagcggcc cgcccgggca ggtctggcac cacncagatc gattaactgg ctcatctgat 60
ctcgtggccc ccaccctgga actgacttag cacaaaagga cacctcaatt ccttatgatt 120
tcatctccga cccaaccaat caacaccctt gactcactgg ccttccccct cccaccaa 180
tatacctaaa aactctgac cccgaatgct caggagatc gatttgagta ctaataagac 240
tccagtctcc tgcacaagca gctctgtgta ctcttctct attgcaattc ctgtcttgat 300
aaatcggtc tgtgtaggcg gcggaagaag tgaacctgtt gggcggttac cacctctgtc 360
gtgtgtgaca gttgntttga atctctaatt gctcagtaca gatccacatg cagggttaagt 420
aagaagcttt tgaagaaaat ggaaagtctt aagtgatggc ttccaagaaa tcaaacctac 480
attaattagg gaacaacgga ctttacgtat cacaatgaa gagactgacn aagtaaatca 540
acttggcctt ttctta 556

```

```

<210> 157
<211> 333
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

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<222> 18, 40, 55, 57, 60, 91, 97, 103, 110, 161, 173, 193, 195,
196, 214, 231, 233, 238, 263, 264, 266, 283, 284, 287, 297,
298, 323, 331

<223> n = A,T,C or G

<400> 157

```
ggtccacaaa aatatatnaa ataagctgga tatataaaan caaacactta acatngncan 60
cattccttca gttattcaaa ctactgata nctaacnggg agnagttggn attctggaag 120
acttcctaag ctaaaagtat atttacatat ttacaacaca ngtaaataata acngaagaac 180
tacttcaa at aangnngaaa ttccagaatt ctanagattt atagctatag ntnacaanta 240
tcaccaattg gtttgcaatc aanngnccag cactacttat gannaangtt taactannaa 300
accaaaaggg gagaaaacct ggnagggaaa nat 333
```

<210> 158

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 345, 565

<223> n = A,T,C or G

<400> 158

```
tcgagcggcc gcccgggcag gtctggtaca tttgtgcgag gtccggcact ctgttctcat 60
ccagtaagtg gtcgagccct ttctgcagaa ttgctgttaa atgttctcct aatagctgtt 120
tctccacaca agcaatcagt ggtttctgtg tgctgtgggc caagtaagtg attactctgt 180
ctccctcttc ttctaagcgt ttacttacat ggtaagata ttctggaacc tctctttcct 240
gcattaacct ttggccttcg gcagcatata agcaattagt ctcttccaaa aatttcagtt 300
caaatgaatc ttatatacacc tgcaggtcag acagcatgcc caggaggct ccgcaacagg 360
ctccggtcca cggcctcggc gtcctctctg cgctcgatca gcagtaggat tccatcaatg 420
gttttactct gaaccatctt atcactaata atatgggttc taaacagttc taatcccata 480
tcccagatgg agggcagcgt ggagttctgc agcacatagg tgcggtccaa gaacagggaag 540
atgcttctga tcatgaatca tttgnctggc aatggtcctg ccagcacgtg gtaatctttc 600
ttttaaaaat aaacccttat ctaaagctc 629
```

<210> 159

<211> 629

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 33, 546, 576

<223> n = A,T,C or G

<400> 159

```
tcgagcggcc gcccgggcag gttctagagg ganaatctgg ctgatttggg aataaaatat 60
aatcgaatat tcaacacccat gaagataaat cttatcttgg aaatctactg accttaatac 120
cccaagcttg ccctgaatac tttgattgga attggaatat atcaaaaaag gttagtattt 180
ttgtttagt taggatacta aaaggatatt agttacccaa gagatccaat ttgtttttct 240
gatgaatagt gttcagtaaa atgaagcagt cttaaagagt actaataatt tcaaagtgat 300
ttttcgtcta ttcttaatat tttttaatta tttattttta agagttttat accttgagca 360
gatacaatga tccgcttttag tgagaggaca atttctgatt gattgttttc tcttcaggcc 420
```

1007662.1030

```

atctcacctc ttcattctct tgttacattt gaagcagttg atataatggg tttatacttt 480
aaaagataga catggtgcca tgaagtttgg ggaagttggg tgaattatcc cattctagtt 540
acagangagc tttccttaaa tgccctttac ttctangttt ggtcaagaag tcatttttctg 600
agtaaaagt tttttcatat atgttgggg 629

```

```

<210> 160
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 46, 309, 397, 430, 434, 471, 497
<223> n = A,T,C or G

```

```

<400> 160
tcgagcggcg cgcccgggca ggtctgctgg gattaatgcc aagtntttca gccataaggt 60
agcgaaatct agcagaatcc agattacatc cacttccaat cgcgcggtgt ttgggtaatc 120
cacttagttt ccagataaca tacgtaagaa tgtccactgg gttggaaacc acaattatga 180
tgcaatcagg actgtacttg acgatctgag gaataatgaa ttggaagaca ttaacatttc 240
tctgcaccag attgagccga ctctccctt ctgtctgacg gactcctgca gttaccacta 300
caatcttana attgggcggg tcacagaata atctttatct gccacaattt taggtgctga 360
agaaataagc tcccatgctg cagatccatc atttctnctt taagcttatc ttccaaaaca 420
tccacaagan caangttcat cagccagaga ctttcccaga atgctgatag nacacgccat 480
accaacttgt ccaacancca ctacagcgat cttatttgt 519

```

```

<210> 161
<211> 446
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 32, 36, 269, 354, 381
<223> n = A,T,C or G

```

```

<400> 161
cgagnggccc gcccgggcag gtccagtaag cntttnacga tgatgggaaa ggttatgcaa 60
gggtcccagcg gtacaacgag ctgtttctac atcatttgta ttctgcatgg tacgtacaat 120
agcagacacc atctgaggag aacgcatgat agcgtgtctg gaagcttcct ttttagaaag 180
ctgatggacc ataactgcag ccttattaac caccacctgg tcctcgatcat ttagcagttt 240
tgtcagttca gggattgcac gtgtggcang ttctgcatca tcttgatagt taatcaagtt 300
tacaactggc atgtttcagc atctgcatg ggctcagcaa acgctggaca ttantgggat 360
gagcagcatc aaactgtgta natgggatct gcatgccctc atctaattgtc tcagggaaca 420
tagcagctcg taccctctga gctcga 446

```

```

<210> 162
<211> 354
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 19, 36, 116, 152, 174, 186, 196, 223, 249

```

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<223> n = A,T,C or G

<400> 162

```
agcgtngtcg cgccccgang tcctgggaag cctttnttgc tgagcctcac agcctctgtc 60
aggcggctgc ggatccagcg gtccaccagg ctctcatggc ctccgggctg ggaggngggg 120
gagggcacaa aacccttccc aaggccacga anggcaaact tggtaggcatt ccanagcttg 180
ttgcanaagt ggcgnaacc cagtatccgg ttcacatcca ggntgatgtc acgaccctgg 240
gacatgtang cacataatcc aaaccggaga gcatcggtgc cacattcacg aatccccgct 300
gggaagtcag ctttctgccc ttctttggcc ttctccacct cgctgggatc cagg 354
```

<210> 163

<211> 258

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 7, 24, 32, 153, 198, 205

<223> n = A,T,C or G

<400> 163

```
tttttcncca agtcctcttg ccgngggatc tngactgcaa ttaagacac ttctaattag 60
ttatacccag gccctgcaaa attgctgggt ttatataata tattcttgct gcacgaagat 120
ttattattct gttgatgat tctattttaa ttntatztat tctggccaaa aaagaacctt 180
ctccgctcgt caagagangc caatntgtct tgaaggacaa gagaaagatg ctaacacaca 240
ctttcttctt cttgagga 258
```

<210> 164

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 97, 130, 163, 178, 203, 204

<223> n = A,T,C or G

<400> 164

```
ggaacatatt actttttaa tacttgggtc aatgaaacat ttaataaaaa catttgcttc 60
tctatataat acgtatgtat aaaataagcc ttttcanaaa ctctggttct cataatcctc 120
tataaatcan atgatctgac ttctaagagg aacaaattac agnaaggggt atacattnat 180
gaatactggg agtactagag ganngacgct aaaccactct actaccactt gcggaactct 240
cacagggtaa atgacaaagc caatgactga ctctaaaaac aa 282
```

<210> 165

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 33, 36, 49, 198, 222, 243, 278, 357, 385, 399, 405, 437

<223> n = A,T,C or G

1006610229400F

```

<400> 165
gcccgggcan gtcctgtaat cccagctact cangangctg agtcatgana atcgcctgaa 60
tccgggaggt agaggccgca gcgagcaaag attaagccac tgcactccag tctgggtgac 120
agagtgagaa tctgtctgtt gtcctctctg catttggtctg aaatgggttt gtagaacatg 180
ccacagaagg accagcanca gcaacaaatg gatttgtgga angcgtagct ccaaattggag 240
cangcacact tgatgaagca cgctgtgtct gtgcagangc aaccactggc actgttccaa 300
aaacattgct gctagcatta cttgtggaag tatacgcatc actggagggtg gctgcanaac 360
tgaaaacgct gtctagtctt gccanagctg catacttgnc tgaanatgca cttgactgac 420
tggaactga accacanaac caacaggacc ttacctgtg ga 462

```

```

<210> 166
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 18
<223> n = A,T,C or G

```

```

<400> 166
cgtgggtcgc ggcncgangt ctgaaaccaa tccagaacta aacatcagca cacaaaaaat 60
accaggatag atggaatcaa aagactctga agccaaaagg aggctaggga gagcaactga 120
acttagcaag ctgaggactt cagtgtccat catccgatcc tgccctgtaa caacagggtct 180
atatgataga gatattccat ctgagctgga ggccattatc cttagcaaac taacacagaa 240
cagaaaacca aatacatgtt ctcatctaga agtaggagct aaatgatgag aactcaagga 300
cacaaagaaa ggaacaacag acactggggc ctacttgagg gtggagggtg ggaggaggga 360
gaaga 365

```

```

<210> 167
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19, 342, 361
<223> n = A,T,C or G

```

```

<400> 167
agcgtgggtc cggcgcgang tccagcccta gcttgctgt gactccgcct tcaactgggtg 60
ctctctctaa aagttgctga ctctttactg tatctcccaa ttccactcc attgggtcca 120
taaggggagg ggtgtctcac tcaacatggt gttcctggta ccaagaactg gctgacgaag 180
ctgggtgccc tggctcatgc ctgtaatccc agcacttttg ggaggccaag aagggcggat 240
cacctgaggt ctggagttca agatcagcct gaccaacatg atgaaaccaa gtctccacta 300
aaaatataaa acaattagcc aggcattggt gtgggtgcct gnaatcccag ctactgggga 360
ngct 364

```

```

<210> 168
<211> 447
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 407, 414, 437
 <223> n = A,T,C or G

<400> 168
 cccgggagcagg tcaaaaccca aaacctttca ttttagccca aaccagctca tgattaggta 60
 tacaaggata acagaaccag ttgtcaggac gagcatttga caagtaaaag caattcttgc 120
 aaagctgcag ttcattccagc tcatggcatg tgtctttata tagcatcctc gcaatgtcag 180
 cttgtctact gtctgtctcca tagaaaatca cgggtattgtg gagaagcaat tgggcatcag 240
 ctttgaactc ttcataactt cgggtatttcc cttcattcac tttctcttga atgggtgggaa 300
 cgtccacaga cctcggccgc gaccacgcta agcccgaatt ctgcagatat ccatcacact 360
 ggcggccggt cgagcatggc atctagaagg cccaattcgc ctatagnagag tcgnattacc 420
 aattcactgg ccgtcgnntt acaacgc 447

<210> 169
 <211> 524
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 6, 39, 40, 235, 248, 313, 340, 359, 382, 389, 420, 434,
 442, 453, 496
 <223> n = A,T,C or G

<400> 169
 cgantngcgc gcccgggagc gtctgagcag cctttctggn tgctggacta ttgggattgg 60
 gttcatccaa cagagactgt atggatgtta gaatggaaga cacatcatag gttggactcc 120
 aacggttctg aagtatgtcc agacatatat taccatctgc atagactaag aacaaaagaag 180
 taggtacatt aaacgtaaca agaccactaa ggttttaaca ttatagacaa aacanaaata 240
 gtcaaganta ctttgccttt gaagtttaaa gattcctatg ttgcttccca gttaactgcc 300
 taaaaagata agncataacc accactagtg aaataatcan gatgatcaga gaatgtcana 360
 tgtgatcagt ataaaactgg angatattna gtgtcatcct ttggaaaagg ctgccctatn 420
 atccaggaaa tcanaaacat tnttgaacag ggnccctagc tatccacaga catgtgggaa 480
 attcattccc caaatngtag gctggatccc ctatctgaaa taac 524

<210> 170
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 10, 63, 66, 90, 93, 96, 186, 207, 261, 290, 324, 326
 <223> n = A,T,C or G

<400> 170
 tcgancggcn cgcccgggca ggtgacaaac ctgttattga agatgttggg tctgatgagg 60
 aanaanatca gaagggatgg tgacaagaan aanaanaaga agattaagga aaagtacatc 120
 gatcaagaag agctcaacaa aacaaagccc atctggacca gaaatcccga cgatattact 180
 aatgangagt acggagaatt ctataanagc ttgaccaatg actgggaaga tcacttggca 240
 gtgaagcatt tttcagttga nggacagttg gaattcagag cccttctatn tgtcccacga 300
 cgtgctcctt ttgatctggt tganancaga aa 332

<210> 171
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 9, 200, 228, 232
 <223> n = A,T,C or G

<400> 171
 cgagnggcnc gcccgggcag gtctgttgat agcgacttaa cagaaaagtc tagacaaaca 60
 taagcataaa aaattacagt ctttctaccc ttgggaatgg ggagaaaaag gaatctctac 120
 cccaagacca gaaataataa gtcctgtttc tggctcctgaa catccagaat tatggaggct 180
 ttggcctgac accacattan aatttgggtc ggaaatcaaa ctttaganac angagatcgt 240
 aagccatttt atactatcga cctaaattcc agtctaacgg ttcctttaca aagttgcgga 300
 aagccctctt atatgctagc tgtaggaaat atag 334

<210> 172
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19, 375, 388, 390, 395, 409, 426, 434
 <223> n = A,T,C or G

<400> 172
 agcgtggctg cggcccgang tctgcctata aaactagact tctgacgctg ggctccagct 60
 tcattctcac aggtcatcat cctcatccgg gagagcagtt gtctgagcaa cctctaagtc 120
 gtgctcatalc tgtgctgcca aagctgggtc catgacaact tctgggtggg cgagagcagg 180
 catggcaaca aattccaagt tagggctctcc aatgagcttc ctagcaagcc agaggaaggg 240
 cttttcaaag ttgtagttac ttttggcaga aatgtcgtag tactgaagat tcttctttcg 300
 gtggaagaca atggatttcg ccttcacttt ctgccttaat atccactttg gtgccacaca 360
 acacaatggg gatgntttca cacacttngn accanatctc tatgccagnt aggccatttt 420
 ggaagnactt cganggtac 439

<210> 173
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 31
 <223> n = A,T,C or G

<400> 173
 cgaatnggccg cccgggcagg tctgtataaa naggaaattc agacatcgta cgactcgtaa 60
 ttgaatgtgg agctgactgc aatattttgt caaagcacca gaatagtgcc ctgcactttg 120
 cgaagcagtc taacaatgtg cttgtgtacg acttgctgaa gaaccattta gagacatttt 180
 caagagtgc agaagagaca ataaaggatt actttgaagc tcgccttgct ctgctagaac 240
 cagtttttcc aatcgcatgt catcgactct gtgagggtcc agatttttca acagattttca 300

```

attaccaacc cccacagaac ataccagaag gctctggcat cctgctgttt atcttccatg 360
caaaacttttt gggtaaagaa gttattgctc ggctctgtgg accgtgtagt gtacaagctg 420
tagttctgaa tgataaattt cagcttcctg tttttctggg tctcgctctg ttgtccaggc 480
tggagtgcag tggcgcggat tacagctcac tggagtcttg acttcccagg cacaagcaat 540
cctcccacct cagcctccta actacctggg actaaaaatg caccgccacc acattccgg 599

```

```

<210> 174
<211> 458
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 30, 32, 35, 51, 61, 213, 261, 327, 347, 359, 377, 418
<223> n = A,T,C or G

```

```

<400> 174
tcgatttggc cgcccgggca ggtccatgcn gnttntgccc attcccatgg ngcccgacaa 60
ncccatcccc gaggcgacaa tcccatggtt catgttcatg cccaccatgc cctggctcat 120
ccctgcgctg ttcccagag gggccattcc catggtgccc gtcattacac cgggcatgtt 180
catagagcat ggtcccccca ggagaggggt agnttgaggc cggacaggaa gcatgtttga 240
tggagaactg aggttcacag nctccaaaac tttgagtcac cacattcata ggctgctgca 300
tattctgtct gctgaatcca ttgtatncag tgatggcctg ctggggnttt ggaaggctng 360
cataccaggt agtaagntcg tctaggctga tgtttacacc tggggtcaga ccaagtanga 420
gggcaagggt ttgctgactg attttctgga cccatatc 458

```

```

<210> 175
<211> 1206
<212> DNA
<213> Homo sapiens

```

```

<400> 175
ggcacgagga agttttgtgt actgaaaaag aaactgtcag aagcaaaaga aataaaatca 60
cagttagaga accaaaaagt taaatgggaa caagagctct gcagtgtgag gtttctcaca 120
ctcatgaaaa tgaaaattat ctcttacatg aaaattgcat gttgaaaaag gaaattgcca 180
tgctaaaact ggaaatagcc aactgaaac accaatacca ggaaaaggaa aataaatact 240
ttgaggacat taagatttta aaagaaaaga atgctgaact tcagatgacc ctaaaactga 300
aagaggaaatc attaaactaaa agggcatctc aatatagtgg gcagcttaaa gttctgatag 360
ctgagaacac aatgctcact tctaaattga aggaaaaaca agacaaagaa atactagagg 420
cagaaattga atcacaccat cctagactgg cttctgctgt acaagaccat gatcaaattg 480
tgacatcaag aaaaagtcaa gaacctgctt tccacattgc aggagatgct tgtttgcaaa 540
gaaaaatgaa tgttgatgtg agtagtacga tatatacaa tgaggtgctc catcaaccac 600
tttctgaagc tcaaaggaaa tccaaaagcc taaaaattaa tctcaattat gccggagatg 660
ctctaagaga aaatacattg gtttcagaac atgcacaaag agaccaacgt gaaacacagt 720
gtcaaatgaa ggaagctgaa cacatgtatc aaaacgaaca agataatgtg aacaaacaca 780
ctgaacagca ggagtctcta gatcagaaat tatttcaact acaaagcaaa aatatgtggc 840
ttcaacagca attagttcac gcacataaga aagctgacaa caaaagcaag ataacaattg 900
atattcattt tcttgagagg aaaatgcaac atcatctcct aaaagagaaa aatgaggaga 960
tatttaatta caataaccat ttaaaaaacc gtatatatca atatgaaaa gagaaagcag 1020
aacagaagt tatataatag tataacactg ccaaggagcg gattatctca tcttcacct 1080
gtaattccag tgtttgtcac gtggtgtgtg aataaatgaa taaagaatga gaaaaccaga 1140
agctctgata cataatcata atgataatta tttcaatgca caactacggg tgggtgctgt 1200
cgtgcc 1206

```

<210> 176
 <211> 317
 <212> PRT
 <213> Homo sapiens

<400> 176
 Met Gly Thr Arg Ala Leu Gln Cys Glu Val Ser His Thr His Glu Asn
 1 5 10 15
 Glu Asn Tyr Leu Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala
 20 25 30
 Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys
 35 40 45
 Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala
 50 55 60
 Glu Leu Gln Met Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg
 65 70 75 80
 Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr
 85 90 95
 Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu
 100 105 110
 Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp
 115 120 125
 His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His
 130 135 140
 Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser
 145 150 155 160
 Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
 165 170 175
 Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp
 180 185 190
 Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg Asp Gln
 195 200 205
 Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn
 210 215 220
 Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp
 225 230 235 240
 Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln
 245 250 255
 Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile
 260 265 270
 Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu Leu Lys Glu
 275 280 285
 Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile
 290 295 300
 Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Thr Glu Val Ile
 305 310 315

<210> 177
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>

10076663033000

<223> Made in the lab

<400> 177

ccaatcatct ccacaggagc

20

<210> 178

<211> 1665

<212> DNA

<213> Homo sapiens

<400> 178

```

gcaaaactttc aagcagagcc tcccggagaag ccatctgcct tcgagcctgc cattgaaatg 60
caaaagtctg ttccaaataa agccttggaa ttgaagaatg aacaaacatt gagagcagat 120
cagatgttcc cttcagaatc aaaacaaaag aaggttgaag aaaattcttg ggattctgag 180
agtctccgtg agactgtttc acagaaggat gtgtgtgtac ccaaggctac acatcaaaaa 240
gaaatggata aaataagtgg aaaattagaa gattcaacta gcctatcaaa aatcttggat 300
acagttcatt cttgtgaaag agcaagggaa cttcaaaaag atcactgtga acaacgtaca 360
ggaaaaatgg aacaaatgaa aaagaagttt tgtgtactga aaaagaaact gtcagaagca 420
aaagaaataa aatcacagtt agagaaccaa aaagttaaataa ggggaacaaga gctctgcagt 480
gtgagggtttc tcacactcat gaaaatgaaa attatctctt acatgaaaat tgcattgtga 540
aaaaggaaat tgccatgcta aaactggaaa tagccacact gaaacaccaa taccaggaaa 600
aggaaaaataa atactttgag gacattaaga ttttaaaga aaagaatgct gaacttcaga 660
tgaccctaaa actgaaagag gaatcattaa ctaaaagggc atctcaatat agtgggcagc 720
ttaaagttct gatagctgag aacacaatgc tcacttctaa attgaaggaa aaacaagaca 780
aagaaatact agaggcagaa attgaatcac accatcctag actggcttct gctgtacaag 840
accatgatca aattgtgaca tcaagaaaaa gtcaagaacc tgctttccac attgcaggag 900
atgcttgttt gcaaagaaaa atgaatgttg atgtgagtag tacgatatat aacaatgagg 960
tgctccatca accactttct gaagctcaaa ggaaatccaa aagcctaaaa attaattctca 1020
attatgccgg agatgctcta agagaaaata cattgggtttc agaacatgca caaagagacc 1080
aacgtgaaac acagtgtcaa atgaaggaag ctgaacacat gtatcaaaac gaacaagata 1140
atgtgaacaa acacactgaa cagcaggagt ctctagatca gaaattatit caactacaaa 1200
gcaaaaaatat gtggcttcaa cagcaattag ttcatgcaca taagaaagct gacaacaaaa 1260
gcaagataac aattgatatt cattttcttg agaggaaaat gcaacatcat ctctaaaaag 1320
agaaaaatga ggagatatit aattacaata accattttaa aaaccgtata tatcaatatg 1380
aaaaagagaa agcagaacaa gaaaactcat gagagacaag cagtaagaaa cttcttttg 1440
agaaacaaca gaccagatct ttactcaaa ctcatgctag gaggccagtc ctagcattac 1500
cttatgttga aaatcttacc aatagtctgt gtcaacagaa tacttatttt agaagaaaaa 1560
ttcatgattt cttcctgaag cctgggcgac agagcgagac tctgtctcaa aaaaaaaaaa 1620
aaaaaaaaagaa agaaagaaat gcctgtgctt acttcgcttc ccagg 1665

```

<210> 179

<211> 179

<212> PRT

<213> Homo sapiens

<400> 179

```

Ala Asn Phe Gln Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro
1          5          10          15
Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys
20          25          30
Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu Ser Lys
35          40          45
Gln Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Arg Glu
50          55          60

```

Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His Gln Lys
 65 70 75 80
 Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser Leu Ser
 85 90 95
 Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu Leu Gln
 100 105 110
 Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met Lys Lys
 115 120 125
 Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu Ile Lys
 130 135 140
 Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu Cys Ser
 145 150 155 160
 Val Arg Phe Leu Thr Leu Met Lys Met Lys Ile Ile Ser Tyr Met Lys
 165 170 175
 Ile Ala Cys

<210> 180
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 180
 gatacagtca ttcttgtgaa agagcaaggg aacttcaaaa agatcactgt gaacaacgta 60
 caggaaaaat ggaacaaatg aaaaagaagt tttgtgtact gaaaaagaaa ctgtcagaag 120
 caaaagaaat aaaatcacag ttagagaacc aaaaagttaa atgggaacaa gagctctgca 180
 gtgtgagatt gactttaaac caagaagaag agaagagaag aaatgccgat atattaaatg 240
 aaaaaattag ggaagaatta ggaagaatcg aagagcagca taggaaagag ttagaagtga 300
 aacaacaact tgaacaggct ctcagaatac aagatataga attgaagagt gtagaaagta 360
 atttgaatca ggtttctcac actcatgaaa atgaaaatta tctcttacat gaaaattgca 420
 tgttgaaaaa ggaaattgcc atgctaaaac tggaaatagc cacactgaaa caccaataacc 480
 aggaaaagga aaataaatac tttgaggaca ttaagatttt aaaagaaaaag aatgctgaac 540
 ttcagatgac cctaaaactg aaagagggaat cattaactaa aagggcactct caatatagtg 600
 ggcagcttaa agttctgata gctgagaaca caatgctcac ttctaaattg aaggaaaaac 660
 aagacaaaga aatactagag gcagaaattg aatcacacca tcttagactg gcttctgctg 720
 tacaagacca tgatcaaatt gtgacatcaa gaaaaagtca agaacctgct ttccacattg 780
 caggagatgc ttgtttgcaa agaaaaatga atgttgatgt gagtagtacg atatataaca 840
 atgagggtgct ccatcaacca ctttctgaag ctcaaaggaa atccaaaagc ctaaaaatta 900
 atctcaatta tgccggagat gctctaagag aaaatacatt ggtttcagaa catgcacaaa 960
 gagaccaacg tgaaacacag tgtcaaatag aggaagctga acacatgtat caaacggaac 1020
 aagataatgt gaacaaacac actgaacagc aggagtctct agatcagaaa ttatttcaac 1080
 tacaagcaa aaatatgtgg cttcaacagc aattagttca tgcacataag aaagctgaca 1140
 acaaaagcaa gataacaatt gatattcatt ttcttgagag gaaaatgcaa catcatctcc 1200
 taaaagagaa aaatgaggag atatttaatt acaataacca tttaaaaaac cgtatatatc 1260
 aatatgaaaa agagaaagca gaaacagaaa actcatgaga gacaagcagt aagaaacttc 1320
 ttttgagaaa acaacagacc agatctttac tcacaactca tgctaggagg ccagtcctag 1380
 cattacctta tgttgaaaaa tcttaccaat agtctgtgtc aacagaatac ttattttaga 1440
 agaaaaattc atgatttctt cctgaagcct acagacataa aataacagtg tgaagaatta 1500
 cttgttcacg aattgcataa aagctgcccga ggatttccat ctaccctgga tgatgccgga 1560
 gacatcattc aatccaacca gaatctcgct ctgtcactca ggctggagtg cagtgggcgc 1620
 aatctcggct cactgcaact ctgcctccca ggttcacgcc attctctggc acagcctccc 1680
 g 1681

10076622.021306

<210> 181
 <211> 432
 <212> PRT
 <213> Homo sapiens

<400> 181

Asp	Thr	Val	His	Ser	Cys	Glu	Arg	Ala	Arg	Glu	Leu	Gln	Lys	Asp	His
1				5					10					15	
Cys	Glu	Gln	Arg	Thr	Gly	Lys	Met	Glu	Gln	Met	Lys	Lys	Lys	Phe	Cys
			20					25					30		
Val	Leu	Lys	Lys	Lys	Leu	Ser	Glu	Ala	Lys	Glu	Ile	Lys	Ser	Gln	Leu
	35						40					45			
Glu	Asn	Gln	Lys	Val	Lys	Trp	Glu	Gln	Glu	Leu	Cys	Ser	Val	Arg	Leu
	50					55					60				
Thr	Leu	Asn	Gln	Glu	Glu	Lys	Arg	Arg	Asn	Ala	Asp	Ile	Leu	Asn	
65					70				75					80	
Glu	Lys	Ile	Arg	Glu	Glu	Leu	Gly	Arg	Ile	Glu	Glu	Gln	His	Arg	Lys
			85					90						95	
Glu	Leu	Glu	Val	Lys	Gln	Gln	Leu	Glu	Gln	Ala	Leu	Arg	Ile	Gln	Asp
			100					105					110		
Ile	Glu	Leu	Lys	Ser	Val	Glu	Ser	Asn	Leu	Asn	Gln	Val	Ser	His	Thr
	115						120					125			
His	Glu	Asn	Glu	Asn	Tyr	Leu	Leu	His	Glu	Asn	Cys	Met	Leu	Lys	Lys
	130					135					140				
Glu	Ile	Ala	Met	Leu	Lys	Leu	Glu	Ile	Ala	Thr	Leu	Lys	His	Gln	Tyr
145					150					155				160	
Gln	Glu	Lys	Glu	Asn	Lys	Tyr	Phe	Glu	Asp	Ile	Lys	Ile	Leu	Lys	Glu
				165				170						175	
Lys	Asn	Ala	Glu	Leu	Gln	Met	Thr	Leu	Lys	Leu	Lys	Glu	Glu	Ser	Leu
		180						185					190		
Thr	Lys	Arg	Ala	Ser	Gln	Tyr	Ser	Gly	Gln	Leu	Lys	Val	Leu	Ile	Ala
	195						200					205			
Glu	Asn	Thr	Met	Leu	Thr	Ser	Lys	Leu	Lys	Glu	Lys	Gln	Asp	Lys	Glu
	210					215					220				
Ile	Leu	Glu	Ala	Glu	Ile	Glu	Ser	His	His	Pro	Arg	Leu	Ala	Ser	Ala
225					230					235				240	
Val	Gln	Asp	His	Asp	Gln	Ile	Val	Thr	Ser	Arg	Lys	Ser	Gln	Glu	Pro
				245					250					255	
Ala	Phe	His	Ile	Ala	Gly	Asp	Ala	Cys	Leu	Gln	Arg	Lys	Met	Asn	Val
			260				265						270		
Asp	Val	Ser	Ser	Thr	Ile	Tyr	Asn	Asn	Glu	Val	Leu	His	Gln	Pro	Leu
	275						280					285			
Ser	Glu	Ala	Gln	Arg	Lys	Ser	Lys	Ser	Leu	Lys	Ile	Asn	Leu	Asn	Tyr
	290					295					300				
Ala	Gly	Asp	Ala	Leu	Arg	Glu	Asn	Thr	Leu	Val	Ser	Glu	His	Ala	Gln
305					310					315				320	
Arg	Asp	Gln	Arg	Glu	Thr	Gln	Cys	Gln	Met	Lys	Glu	Ala	Glu	His	Met
				325					330					335	
Tyr	Gln	Asn	Glu	Gln	Asp	Asn	Val	Asn	Lys	His	Thr	Glu	Gln	Gln	Glu
		340						345					350		
Ser	Leu	Asp	Gln	Lys	Leu	Phe	Gln	Leu	Gln	Ser	Lys	Asn	Met	Trp	Leu
	355						360				365				
Gln	Gln	Gln	Leu	Val	His	Ala	His	Lys	Lys	Ala	Asp	Asn	Lys	Ser	Lys
	370					375					380				

10076622 "031300"

Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu
 385 390 395 400
 Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys
 405 410 415
 Asn Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Thr Glu Asn Ser
 420 425 430

<210> 182
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 182
 gaagtttcat gaggttttagc ttttctgggc tggggagtgagg agagaaagaa gttgcagggc 60
 ttacaggaaa tcccagagcc tgagggtttc tcccagattt gagaactcta gattctgcat 120
 cattatcttt gagtctatat tctcttgggc tgtaagaaga tgaggaatgt aataggtctg 180
 ccccaagcct ttcattgcct ctgtaccaag ctgttttct tgtgcatcct tcccaggctc 240
 tggctgcccc ttattggaga atgtgatttc caagacaatc aatccacaag tgtctaagac 300
 tgaatacaaa gaacttcttc aagagttcat agacgacaat gccactacaa atgccataga 360
 tgaattgaag gaatgttttc ttaaccacaa ggatgaaact ctgagcaatg ttgaggtggt 420
 tatgcaatta atatatgaca gcagtctttg tgattttatt taactttctg caagaccttt 480
 ggctcacaga actgcagggt atggtgagaa a 511

<210> 183
 <211> 260
 <212> DNA
 <213> Homo sapiens

<400> 183
 cacctcgagg ttcagctcct ctgtcttggg gaagaacat tcctcgccat ccttgcgggt 60
 ctctctgcc atcttctcat actggtcacg catctcggtc agaatgcggc tcaggtccac 120
 gccaggtgca gcgtccatct ccacattgac atctccaccc acctggcctc tcagggcatt 180
 catctcctcc tctgtggtct tcttcaggta ggccagctcc tccttcaggc tctcaatctg 240
 catctccagg tcagctctgg 260

<210> 184
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 184
 gtctgatggg agaccaaaga atttgcaagt ggatgggttg gtatcactgt aaataaaaag 60
 agggcctttt ctagctgtat gactgttact tgaccttctt tgaaaagcat tcccaaaatg 120
 ctctatttta gatagattaa cattaaccaa cataattttt tttagatcga gtcagcataa 180
 atttctaagt cagcctctag tctgtggttc tctctttcac ctgcatttta tttgggtggt 240
 gtctgaagaa aggaaagagg aaagcaata cgaattgtac tatttgtacc aaatcttttg 300
 gattcattgg caaataattt cagtgtggtg tattatttaa tagaaaaaaa aaattttggt 360
 tcctaggttg aaggtctaat tgataccgtt tgacttatga tgaccattta tgcactttca 420
 aatgaatttg ctttcaaaat aatgaagag cagacctcgg c 461

<210> 185
 <211> 531
 <212> DNA

100766220 "031303"

<213> Homo sapiens

<400> 185

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tctgatttta tttccttctc aaaaaaagtt atttacagaa ggtatatatc aacaatctga 60
caggcagtga acttgacatg attagctggc atgatttttt cttttttttc ccccaaacat 120
tgtttttggt gccttgaatt ttaagacaaa tattctacac ggcatattgc acaggatgga 180
tggcaaaaaa aagtttaaaa acaaaaaccc ttaacggaac tgccttaaaa aggcagacgt 240
cctagtgcct gtcagtgtat attaaacata catacacaca atctttttgc ttattataat 300
acagacttaa atgtacaaag atgtttttcca cttttttcaa tttttaaaca caacagctat 360
aaacctgaac acatatgcta tcatcatgcc ataagactaa aacaattata tttagcgaca 420
agtagaaaag attaaatagt caaatacaag aatgaaaaac gcagtagata gtgtcgcgaa 480
ctcaaatcgg catttagata gatccagtgg tttaaacggc acgtttttgc t 531
```

<210> 186

<211> 441

<212> DNA

<213> Homo sapiens

<400> 186

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cattcctttc ctcgcgttgg ggtttctctg tgtcagcgag cctcgggtaca ctgatttccg 60
atcaaaaagaa tcatcatctt taccttgact ttccaggga ttactgaact ttcttctcag 120
aagatagggc acagccattg ccttggcctc acttgaaggg tctgcatttg ggctcctctg 180
tctcttgcca agtttcccaa ccaactcgagg gagaaatata gggagggttg acttcctccg 240
gggctttccc gagggcttca ccgtgagccc tgcggccctc agggctgcaa tcctggattc 300
aatgtctgaa acctcgctct ctgcctgctg gacttctgag gccgtcactg ccaactctgtc 360
ctccagctct gacagctcct catctgtggt cctgttgtac tggacggggg cccaggggtc 420
ctgggggctt ttttctctgc t 441
```

<210> 187

<211> 371

<212> DNA

<213> Homo sapiens

<400> 187

```
aaaagtgaat gagtaactat tatattgttg gcaataataa gttgcaaaat catcaggctg 60
caggctgctg atgggtgagag tgaactctgt cccagatcca ctgccgctga accttgatgg 120
gaccccagat tctaaactag acgccttatg gatcaggagc tttggggctt tccctgggtt 180
ctgttgatac caggccaacc aactactaac actctgactg gcccggaag tgatgggtgac 240
tctgtctcct acagttgcag acagggtgga aggagactgg gtcactctgga tgtcacattt 300
ggcacctggg agccagagca gcaggagccc caggagctga gcggggaccc tcatgtccat 360
gctgagtcct g 371
```

<210> 188

<211> 226

<212> DNA

<213> Homo sapiens

<400> 188

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ggtatataaa ttgagatgcc cccccaggcc agcaaagtgt cttttttgtt caaagtctat 60
ttttattcct tgatattttt cttttttttt tttttgtgga tggggacttg tgaatttttc 120
taaagggtgct atttaacatg ggaggagagc gtgtgcggct ccagcccagc ccgctgctca 180
ctttccaccc tctctccacc tgccctctggc ttctcaggac ctgccc 226
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<210> 189

10076622.021302

<211> 391
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 43, 112, 131, 156, 195, 208, 221, 317, 333, 367
 <223> n = A,T,C or G

<400> 189
 tgggtgaagt ttattctggt ttcacatcta ggttggtggg ganagtgata gacaaagttc 60
 tggattctgg gcatcgctcg cgcatgcttg taatcctact tgggagggtg anacaggaga 120
 cctcggccgc naccacgcta agggcgaatt ctgcanatat ccatcacact ggccggccgct 180
 cgagcatgca tctanagggc ccaattcncc ctatagttag ncgtattaca attcactggc 240
 cgtcgtttta caacgctcgt actgggaaaa ccctggcgtt acccaactta atcgcccttg 300
 agcacatccc cttttcncca gctggcttaa tancgaagag gcccgcaccg atcgcccttc 360
 ccaacanttg cgcagcctga atggcgaatg g 391

<210> 190
 <211> 501
 <212> DNA
 <213> Homo sapiens

<400> 190
 catcttggcc tttttgagct gtttccgctt cttctcatcc cggtcactgt caccctcatt 60
 actggaggag ctggcagagg cgttgctgtc aaactcctct gccacatctt cctcctcttc 120
 acctgggttg aatgactcat cggtttcttc tctgagtgca tcgctgctgt cattggcatt 180
 ctctccccg atcttgccct cctccttcat cctctccaag taggcatcat gctggtcctc 240
 atcagagtca gcatattcat cgtagcttgg gticcatgccc tctttcaatc ctcggttttt 300
 gatgttgagc tttttcgcgt tgacaaaatc aaacagtttc ccgtactcct ccctctcaat 360
 gctgctgaag gtatactgag tgccctgctt ggtctcaatt tcaaagtcaa aggaacgagt 420
 agtagtggtg ccacgagcaa agttgacaaa ggagatctca tcgaagcgga tgtgcacagg 480
 tggcttgtgg acgtagatga a 501

<210> 191
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 49
 <223> n = A,T,C or G

<400> 191
 ggaaaaactg tgaaaaatat atctgaatth attaatgaca gtataaaana gggttgtggc 60
 aacagaaagt aaaaactaac atggattgct ataaatatgc tgaagcctag ttgttcaaat 120
 gatacaattc tctcatgcta ctctaaagtt tataaagaaa aaggatttac actttacaca 180
 ctgtacacaa aaggaatacc ttctgagagc caggaggtgg ggaaagggga aggagacttg 240
 a 241

<210> 192
 <211> 271
 <212> DNA

CCCTGCTTGA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 17, 23, 26, 70, 227, 245

<223> n = A,T,C or G

<400> 192

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tggtcntgga ttcacanata aantanatcg actaaaactg gcagaaattg tgaagcaggt 60
gatagaagan caaaccacgt cccacgaatc ccaataatga cagcttcaga ctttgctttt 120
ttaacaattt gaaaaattat tctttaatgt ataaagtaat tttatgtaaa ttaataaatc 180
ataatttcat ttccacattg attaaagctg ctgtatagat ttagggngca ggacttaata 240
atagnggaaa tgaaattatg atttattaat c 271

```

<210> 193

<211> 351

<212> DNA

<213> Homo sapiens

<400> 193

```

agtcgaggcg ctgatcccta aaatggcgaa catgtgtttt catcatttca gccaaagtcc 60
taacttcctg tgcccttcct atcacctcga gaagtaatta tcagttgggt tggatttttg 120
gaccaccgtt cagtcatttt ggggttgccgt gctcccaaaa cattttaaat gaaagtattg 180
gcattcaaaa agacagcaga caaaatgaaa gaaaatgaga gcagaaagta agcatttcca 240
gcctatctaa tttcttttagt tttctatttg cctccagtgc agtccatttc ctaatgtata 300
ccagcctact gtactattta aaatgctcaa tttcagcacc gatggacctg c 351

```

<210> 194

<211> 311

<212> DNA

<213> Homo sapiens

<400> 194

```

ctgagacaca gaggccact gcgaggggga cagtggcggt gggactgacc tgctgacagt 60
caccctccct ctgctgggat gaggtccagg agccaactaa aacaatggca gaggagacat 120
ctctgggtgt cccaccacc tagatgaaaa tccacagcac agacctctac cgtgtttctc 180
ttccatccct aaaccacttc cttaaaatgt ttggatttgc aaagccaatt tggggcctgt 240
ggagcctggg gttggatagg gccatggctg gtccccccacc atacctcccc tccacatcac 300
tgacacagac c 311

```

<210> 195

<211> 381

<212> DNA

<213> Homo sapiens

<400> 195

```

tgtcagagtg gcactggtag aagttccagg aaccctgaac tgtaagggtt cttcatcagt 60
gccaacagga tgacatgaaa tgatgtactc agaagtgtcc tggaatgggg cccatgagat 120
ggttgtctga gagagagctt cttgtcctgt ctttttcctt ccaatcaggg gctcgctctt 180
ctgattattc ttccagggcaa tgacataaat tgtatattcg gttcccgggt ccaggccagt 240
aatagtagcc tctgtgacac cagggcgggg ccgagggacc acttctctgg gaggagaccc 300
aggcttctca tacttgatga thtagccggg aatcctggca cgtggcggtt gccatgatac 360
cagcagggaa ttgggtgtgg t 381

```

1007662.031303

<210> 196
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 196
 cacaaacaag aggagcacca gacctcctct tggcttcgag atggcttcgc cacaccaaga 60
 gcccaaacct ggagacctga ttgagatddd ccgccttggc tatgagcact gggccctgta 120
 tataggagat ggctacgtga tccatctggc tctccaagt gaggaccccg gggctggctc 180
 ctccagtgtc ttctcagtcg tgagcaacag tgcagagggtg aaacgggagc gcctggaaga 240
 tgtgggtggga ggctgttgct atcgggtcaa caacagcttg gacctgagt accaaccacg 300
 gcccggtggag gtgatcacca gttctgcgaa ggagatgggtt ggtcagaaga tgaagtacag 360
 tattgtgagc aggaactgtg agcactttgt caccagacc t 401

<210> 197
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 197
 ctgtaatgat gtgagcaggg agccttcctc cctggggccac ctgcagagag ctttcccacc 60
 aactttgtac cttgattgcc ttacaaagt ttattgtttac aaacagcgac catataaaaag 120
 cctcctgccc caaagcttgt gggcacatgg gcacatacag actcacatac agacacacac 180
 atatatgtac agacatgtac tctcacacac acaggcacca gcatacacac gtttttctag 240
 gtacagctcc caggaacagc taggtgggaa agtcccatca ctgaggggagc ctaaccatgt 300
 ccctgaacaa aaattgggca ctcatctatt ctttttctct tgtgtcccta ctcatgaaa 360
 ccaaactctg gaaaggaccc aatgtaccag tatttatacc tctagtgaag cacagagaga 420
 ggaagagagc tgcttaaact cacacaacaa tgaactgcag acacagacct g 471

<210> 198
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 198
 ggtccattga ggctctgtcg gccatgcccc cagttcgaag ctttgccaac gaggagggcg 60
 aagcccagaa gtttagggaa aagctgcaag aaataaagac actcaaccag aaggaggctg 120
 tggcctatgc agtcaactcc tggaccacta gtatttcagg tatgctgctg aaagtgggaa 180
 tctctacat tgggtgggcag a 201

<210> 199
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 199
 tctggcacag atcttcaccc acacggcggt ccacgtgctg atcatcttcc ggggtctcacc 60
 gggcctggaa cacaccatct tccccatgag cccggtgccc agtctgggtga cttccatctt 120
 ggccctggc cttatgtccc agttatgacc cctgaattca actctggctc ttaccctgta 180
 actccagtcc atctctgaca tttttaacac ccggccttgt gaccgtggac atagctcctg 240
 acctcgattc ccatcttgag ccagtggtta gtccatgaga tcatgaacct actcctggctc 300
 tccaaccttg tgatcctaatt tctgggacct caatcctagc ctctgaactt gggacctggg 360
 agctcctgac cttagtctg accgctaccc ttgattctga cctttgatcc tgtaacttag 420
 ggggtggccc tgaccttatt actgtcattt agctccttga ccttgccact tcaatcctgg 480

20250320 22:09:09

ctttatgacc tcctactctc aattttaact ttaaccaa at gaccaaattt gtgacactaa 540
atgaccacaa t 551

<210> 200
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 36, 40, 78, 165, 170, 171, 173, 203, 207, 208
<223> n = A,T,C or G

<400> 200
cagctcancg ggcgacatgc ccctacaagt tggcanaagn ggctgccact gctggggtttg 60
tgtaagagag gctgctgnca ccattacctg cagaaacctt ctcatagggg ctacgatcgg 120
tactgctagg gggcacatag cgcccatggg tgtggtaggt ggggnactcn ntnataggat 180
ggtaggatc ccgggctgga aanatgnnca g 211

<210> 201
<211> 111
<212> DNA
<213> Homo sapiens

<400> 201
ccagtgaag gaaacaaaac tggcagtttg tccatttgaa tatcagacct agtttcttct 60
taatttcac actatttctc ccatttcct taaacttctt ggcattccacc t 111

<210> 202
<211> 331
<212> DNA
<213> Homo sapiens

<400> 202
tgaaaatata gaataccagg tgggtcccaa tgtttgaagt tctttgaaca gaaagagaga 60
ggagagagag agagaggaaa attccctaac ccttggttta aagacaatat tcatttattg 120
ctcaaatgat gcttttaagg gaggacagtg gaataaaata aacttttttt ttctccctac 180
aatacataga agggttatca aaccactcaa gtttcaaaat ctttccaggg tccaatatca 240
ctttttttct ttcggttcaa tgaaaagcta aatgtaataa tactaattat agataaaatt 300
ttattttact ttttaaaaat ttgtccagac c 331

<210> 203
<211> 491
<212> DNA
<213> Homo sapiens

<400> 203
agtcacccag tctacttagt acctgggttg tgccctctgac cttttcagct tgataccctg 60
ggcttttagtg taaccaataa atctgtagtg accttacctg tattccctgt gctatcctgt 120
gggaaggtag gaatgggcta agtatgatga atgtatagg tagggatctt ttgggtttta 180
atcacagaaa acctaatcca aactggctta aaataaaaag gatttattgg ttcagtgaac 240
tagaaagtcc ataggtagtg ctggctccag gtgaagactt gaccagtag ttcagtatgt 300
ctctaaatac cggactgact tttttctcac tgttgcatct tctgtaggac catttaagtc 360
tgggccactt aatggctgcc agcattccta agattacact tttcccatc tatgtccaat 420

1007692.21302

cagaaaaaga aggcattctt gtaccagaaa tctcagcaaa agccctaata ttcacactga 480
ttaggacctg c 491

<210> 204
<211> 361
<212> DNA
<213> Homo sapiens

<400> 204
tcccttcctc ccccatgtga taaatgggtc cagggctgat caaagaactc tgactgcaga 60
actgcegtc tcagtggaca gggcatctgt tatcctgaga cctgtggcag acacgtcttg 120
ttttcatttg atttttgtta agagtgcagt attgcagagt ctagaggaat ttttgtttcc 180
ttgattaaca tgattttcct ggttggtaca tccagggcat ggcagtggcc tcagccttaa 240
acttttggtc ctactccac cctcagcgaa ctgggcagca cggggagggt ttggctaccc 300
ctgcccattc ctgagccagg taccaccatt gtaaggaaac actttcagaa attcagacct 360
c 361

<210> 205
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2, 3
<223> n = A,T,C or G

<400> 205
cnngtacagt tcttcctgga tggccgacac agatcctggg gaaaggcaat cctggcactg 60
ctctgaaacc agagctcctc ctccctcccc gggcaggggt gagctgagaa gggctgctct 120
agcgttgga ctccacctcc atacacctga tattttgata gggcaggtcc ctgctatggg 180
ccactgttct gggcagtata gtatgcttga cagcatcctt ggcattctatc caccagatcc 240
cagagcaccg gctactagct gtgacaacat cctccaaaca ttgcaaaatt tcccctggga 300
ggcaagattg cctcagatgg gagaatcacg ctctagggaa atctgctggt atgagaacct 360
caactcccca ctccactgag cctccagatg gcgagcaggc tgcagctcca gcacagacac 420
gaagctccct ccagccactg acggtccatg gctgggggta cccaggacct c 471

<210> 206
<211> 261
<212> DNA
<213> Homo sapiens

<400> 206
tagagtattt agagtctctg gataacaagg aatccaggca tccttttagac agtcttctgt 60
tgtcctttct tccaatcag agatttgtgg atgtgtggaa tgacaccacc accagcaatt 120
gtagccttga tgagagaatc caattcttca tctccacgaa tagcaagttg caagtgcga 180
ggggttaatac gctttacctt taagtctttt gatgcatttc ctgccagttc aagtacctct 240
gcggtgaggt actccaggat g 261

<210> 207
<211> 361
<212> DNA
<213> Homo sapiens

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<400> 207
gctctccggg agcttgaaga agaaactggc tacaaagggg acattgccga atgttctcca 60
gcgggtctgta tggacccagg cttgtcaaac tgtactatac acatcgtgac agtcaccatt 120
aacggagatg atgccgaaaa cgcaaggccg aagccaaagc caggggatgg agagtttgtg 180
gaagtcattt ctttacccaa gaatgacctg ctgcagagac ttgatgctct ggtagctgaa 240
gaacatctca cagtggacgc caggggtctat tcctacgctc tagcactgaa acatgcaaat 300
gcaaagccat ttgaagtgcc cttcttgaaa ttttaagccc aaatatgaca ctggacctgc 360
c 361

<210> 208
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 27, 37, 46, 75, 95, 102, 137, 143, 202, 234, 278, 310, 351
<223> n = A,T,C or G

<400> 208
agaggagatn tttgccatgc ctgaatnctt tcctatncca ccctancact taacatatta 60
cttagtctgc tttgntaaaa gcaagtatta ccttnaactt gnetcttact ctttgccctt 120
tagctaacta ataaagnttg atntaggcat tattatataa ttctgagtca ttcatggtat 180
ctctcatgtt tgatgtattt tncaaactaa gatctatgat agtttttttt ccanagttcc 240
attaaatcat ttatttcctt tactttctca cctctgtnga aacattttaga aactggattt 300
gggaacccan ttttggaana ccagattcat agtcatgaaa atggaaactt ncatattctg 360
tttttgaaaa gatgtggacc t 381

<210> 209
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 83
<223> n = A,T,C or G

<400> 209
gtggagagca agtgatttat taaagcaaga cgttgaaacc tttacattct gcagtgaaga 60
tcagggtgtc attgaaagac agnggaaacc aggatgaaag tttttacatg tcacacacta 120
cattttcttca atattttcac caggacttcc gcaatgaggc ttctgttctg aaggacatc 180
tgatccgtgc atctcttcac tcctaacttg gctgcaacag cttccacctg c 231

<210> 210
<211> 371
<212> DNA
<213> Homo sapiens

<400> 210
tccatcctgg ttttgcagag atcaggttgt tgacagttcc tggttgaccc acagctaccc 60
atgtcagtta tctccactaa catatccaag aatctttgta ggacaatttc tccacctgca 120
agggttttta ggtagaactc ttcttttaag gcaattagcc cattgccaaa aggttttact 180

10076522.024302

```

gtcttaaagc tgtctttctg agatctaatt ccaaggactt ctccacagct aagtgagatg 240
cctcacacca ttagggtgatg ctttggacag aacagagtat ttccatcttg tgtttaaagc 300
aatcccttgg cttcgggtcc tcaccacttt ctatgccagt ctcccattta tgtccctagt 360
aatgcctatg c                                     371

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```

<210> 211
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<400> 211
tttatttttaa aagaaaaaaaa ttaaaataga gccaacaaat gcaattaaga aaaaaaaagt 60
attgagacac aagggggacct acatgttctg gtctaagaag catgcaagta ttacaaagca 120
ttccagatac agtatgacag aggaacagtg aacaagcatt ggaacgatgc tctttctttc 180
agaaacggga agtctaacag ttatgttttc acaatggtag tgattaaacc atctttattt 240
ttaaggaatt ttataggaag aatttttagc ccatcattaa aggaaaaata ataatacctt 300
tttagccctg cctatctcca gtcttggaat aataacagaa gcatagcacc tttcagtatc 360
taaaatataa acaagaatag taagtccatc ccagcttcta gagatgaggt agctcatgct 420
aagaaatggt gggtcatttt tcctatgaaa gttcaaaggc caaatgggtca c         471

```

```

<210> 212
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 212
tggcctgtct ccttcacata gtccatatca ccacaaatca cacaacaaaa gggagaggat 60
atattttggg ttcaaaaaaa gtaaaaagat aatgtagctg catttctttg gttatttttg 120
gccccaaata ttccctcatc tttttgttgt tgtcatggat ggtggtgaca tggacttggt 180
tatagaggac aggtcagctc tctggctcgg tgatctacat tctgaagttg tctgaaaatg 240
tcttcatgat taaattcagc ctaaacgttt tgccgggaac actgcagaga caatgctgtg 300
agtttccaac ctccagccat ctgcgggcag agaagggtcta gtttgtccat caccattatg 360
atatcaggac tggttacttg gtttaaggagg ggtctacctc g         401

```

```

<210> 213
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 239, 290, 358, 359, 391, 393
<223> n = A,T,C or G

```

```

<400> 213
tgtgaagcat acataaataa atgaagtaag ccatactgat ttaatttatt ggatgttatt 60
ttccctaaga cctgaaaaatg aacatagtat gctagttatt ttccagtgtt agccttttac 120
tttcctcaca caattttggaa tcatataata taggtacttt gtccctgatt aaataatgtg 180
acggaatagaa tgcatacaagt gtttattatg aaaagagtgg aaaagtatat agcttttanc 240
aaaagggtgtt tgcccattct aagaaatgag cgaatatata gaaatagtnn gggcatttct 300
tcctgttagg tggagtgtat gtgttgacat ttctcccatc ctcttccac tctgttttnt 360
ccccattatt tgaataaagt gactgctgaa nangactttg aatccttata cacttaattt 420
aatgtttaaa gaaaaaccta taatggaaa tgagactcct t         461

```

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<210> 214
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 214
 cctgagcttc tactcctttc ccttaagatt cctccaaagc accagctcca taaaatcctt 60
 cagctcccca gaccacacc aagaacccca catgttaatt ggatcagcca aatctacaag 120
 cagataagtc ctaaggagaa tgccgaagcg tttttcttct tcctcaagcc tagcatgaga 180
 c 181

<210> 215
 <211> 581
 <212> DNA
 <213> Homo sapiens

<400> 215
 ctgctttaag aatggttttc caccttttcc ccctaattctc taccaatcag acacatttta 60
 ttattttaa atctgacacctc ctctatttta tttgccaggg gcacgatgtg acatatctgc 120
 agtcccagca cagtgggaca aaaagaattt agaccccaaa agtgtcctcg gcatggatct 180
 tgaacagaac cagtatctgt catggaactg aacattcatc gatggtctcc atgtattcat 240
 ttattcactt gttcattcaa gtattttattg aatacctgcc tcaagctaga gagaaaagag 300
 agtgcgcttt ggaaatttat tccagttttc agcctacagc agattatcag ctcggtgact 360
 tttctttctg ccaccattta ggtgatggtg tttgattcag agatggctga atttctattc 420
 ttagcttatt gtgactgttt cagatctagt ttgggaacag attagaggcc attgtcctct 480
 gtccctgatca ggtggcctgg ctgtttcttt ggatccctct gtcccagagc caccacagaac 540
 cctgactctt gagaatcaag aaaacaccca gaaaggacct c 581

<210> 216
 <211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 38, 164, 176, 254
 <223> n = A,T,C or G

<400> 216
 ccgatgtcct gcttctgtgg accaggggct cctctgnngg tggcctcaac cacggctgag 60
 atccctagaa gtccaggagc tgtggggaag agaagcactt agggccagcc agccgggcac 120
 cccacttgc gccccgacct acgctcacgc accagacctg ccnnggcggt cgctcnaaag 180
 ggcgaattct gcagatatcc atcacactgg cggacgctcg agcatgcac tagagggccc 240
 aattcacctc atantgagtc gtattacaat tcactggccg t 281

<210> 217
 <211> 356
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 33, 322
 <223> n = A,T,C or G

10075622.021302


```

<400> 217
atagcagggt tcaacaattg tcttgtagtt tgnagtaaaa agacataaga aagagaagg 60
gtgggttgca gcaatccgta gttgggttct caccataccc tgcagttctg tgagccaaag 120
gtcttgcaaga aagttaaaat aaatcacaaa gactgctgtc atatattaat tgcataaaca 180
cctcaacatt gctcagagtt tcatccgttt gggttaagaaa acattccttc aattcatcta 240
tggcatttgt agtggcattg tctgtctatga actcttgaag aagttctttg tattcagtct 300
tagacacttg tggattgatt gncttggaag tcacattctc caataaggga cctcgg 356

```

```

<210> 218
<211> 321
<212> DNA
<213> Homo sapiens

```

```

<400> 218
ttgtccatcg ggagaaagggt gtttgctcagt tgtttcataa accagattga ggaggacaaa 60
ctgctctgcc aatttctgga tttctttatt ttcagcaaac actttcttta aagcttgact 120
gtgtgggcac tcatccaagt gatgaataat catcaagggt ttgttgcttg tcttgattt 180
atatagagct tcttcatatg tctgagtcga gatgagttgg tcacccaac ctctggagag 240
ggctctgggc agtttgggct gagagtcctt tgtgtccttt ttggctccag gtttgactgt 300
ggtatctctg gacctgcctg g 321

```

```

<210> 219
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 41
<223> n = A,T,C or G

```

```

<400> 219
ccggttaggt ccacgcgggg gcagtgaggg cacaggctca nggtggccgg gctacctggc 60
accctatggc ttacaaagta gagttggccc agtttccttc cacctgaggg gagcactctg 120
actcctaaca gtcttccttg ccctgccatc atctgggggtg gctggctgtc aagaaaggcc 180
gggcatgctt tctaaacaca gccacaggag gcttgtaggg catcttccag gtggggaaac 240
agtcttagat aagtaagggt acttggtctaa g 271

```

```

<210> 220
<211> 351
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32, 43
<223> n = A,T,C or G

```

```

<400> 220
gtcctacgac gaggaccagc ttttcttctt cnacttttcc canaacactc ggggtgcctcg 60
cctgcccga tttgctgact gggctcagga acaggagat gtcctgcca ttttatttga 120
caaagagttc tgcgagtggg tgatccagca aatagggcca aaacttgatg ggaaaatccc 180
gggtgtccaga ggggtttccta tgcgtgaagt gttcacgctg aagcccctgg agtttggtgaa 240

```

205720"2269400T

gccaacact ttggtctgtt ttgtcagtaa tctcttccca cccatgctga cagtgaactg 300
 gtagcatcat tccgtccctg tggaaggatt tgggcctact tttgtctcag a 351

<210> 221
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 221
 gtctgcagaa gcgtgtctga ggtgtccggt ggaggtggca gccgagctct gggactaatc 60
 accgtgctgg ggacggcacc gcgtcaggat gcaggcagat ccctgcagaa gtgtctaaaa 120
 ttcacactcc tcttctggag ggacgtcgat ggtattagga tagaagcacc aggggacccc 180
 acgaacggtg tcgtcgaaac agcagccctt atttgcacac tgggagggcg tgacaccagg 240
 aaaaccacaa ttctgtcttt cacggggggc cactgtacac gtctctgtct gggcctcggc 300
 cagggtgccg agggccagca tggacaccag gaccagggcg cagatcacct tgttctccat 360
 ggtggacctc g 371

<210> 222
 <211> 471
 <212> DNA
 <213> Homo sapiens

<400> 222
 gtccatgttc catcattaat gttccaacat caccagggac acaaagctgc aaaaatgaga 60
 agggaaataa ggtagagaa aggatccggg caatcttaag gactgaggaa gacatgttcc 120
 ccaacccttg aactcacaaa ccctgaagct caaggattgc atccttcctc caaatctcac 180
 tcaacataat aagtgcagaa caacatgcca aagcactgta tgaagcacta gggacaaaga 240
 caaggtcaaa atccttgtaa ccaaatttaa tggattgta atgcagtgtt aacacaggac 300
 agtaacagaa caccacaagaa ccaaacagaa gagggtaggg ataagcataa atgaagtaac 360
 atgaaataaa ctccaaaatg gaaaacttgt ccataccccc agggcaagtc aactacagtc 420
 tcccaaagga cataaattcc acttagggca cactagacag aaaacaatat t 471

<210> 223
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 223
 agttgtctta caatgacaca caaatcccgt taaataaatt ataaacaagg gtcaattcaa 60
 atttgaagta atgttttagt aaggagagat tagaagacaa caggcatagc aaatgacata 120
 agctaccgat taactaatcg gaacatgtaa aacagttaca aaaataaacg aactctcctc 180
 ttgtcctaca atgaaagccc tcatgtgcag tagagatgca gtttcatcaa agaacaaaca 240
 tccttgcaaa tgggtgtgac gcggttccag atgtggattt ggcaaacct catttaagta 300
 aaaggttagc agagcaaagt gcggtgcttt agctgctgct tgtgccgctg tggcgctcggg 360
 gaggtcctcg cctgagcttc ctccccagc tttgctgcct gagaggaacc a 411

<210> 224
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31

1007633_02130

<223> n = A,T,C or G

<400> 224

```

ggctctgaagt ttgataacaa agaaatatat ntaagacaaa aatagacaag agttaacaat 60
aaaaacacaa ctatctgttg acataacata tggaaacttt ttgtcagaaa gctacatctt 120
cttaatctga ttgtccaaat cattaataata tggatgattc agtgccattt tgccagaaat 180
tcgtttggct ggatcataga ttaacatttt cgagagcaaa tccaagccat tttcatccaa 240
gtttttgaca tgggatgcta ggcttcctgg tttccatttg ggaaatgtat tcttatagtc 300
ctgtaaagat tccacttctg g                                     321

```

<210> 225

<211> 251

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 34

<223> n = A,T,C or G

<400> 225

```

atgtctgggg aaagagttca ttggcaaaag tgtntctcca agaatggttt acaccaagca 60
gagaggacat gtcactgaat ggggaaaggg aacccccgta tccacagtca ctgtaagcat 120
ccagtaggca ggaagatggc ttggggcagt ggctggatga aagcagattt gagataccca 180
gctccggaac gaggtcatct tctacagggt cttccttcac tgagacaatg aattcagggc 240
gatcattctc t                                     251

```

<210> 226

<211> 331

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 26, 34, 35, 36, 37, 39

<223> n = A,T,C or G

<400> 226

```

gttaggtccc aggccccccg ccaagngggt accnnntna ccaactcctga cccaaaaatc 60
aggcatggca ttaaaacggt gcaaattcct ttactgttat cccccccacc accaggacca 120
tgtaggggtgc agtctttact ccctaaccog tttcccgaaa aagggtgctac ctcttttcca 180
gacagatgag agagggcagg acttcaggct ggatccacca ctgggctctc cctccccag 240
cctggagcac gggaggggag gtgacggctg gtgactgatg gatgggtagt gggctgagaa 300
gaggggacta ggaagggcta ttccaggctc a                                     331

```

<210> 227

<211> 391

<212> DNA

<213> Homo sapiens

<400> 227

```

aggtctgccc ttgaagtata ggaaggaatc atagttggag gacttctgca ttatttggtg 60
gctgaagcta gaagtgcac cccctcctga tttctgcagc aagatgaact gccttatccc 120
cagcccgagc gaatgttcat atctgagcaa tcaatgggca ctgtgttcaa ccacgccatt 180

```

20070622 03:30

```

ttcaagattg gtcctttaa ccaccacaa ggcaccagct ctgggagaag ctgcagggag 240
aagagaacaa agccctcgct gtgatcagga tgggtgtctc ataccttttc tctgggggtca 300
ttccagggtat gagacagagt tgaacctgcg catgagcgtg gaggccgaca tcaacggcct 360
gcgcaggggtg ctggatgagc tgaccctgga c 391

```

```

<210> 228
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 35
<223> n = A,T,C or G

```

```

<400> 228
gttgtccata gccacctcct gggatagaag cttntagtt catagttcga ttagtgtgtc 60
cttaggacat aggtccagcc ctacagatta gctgggtgaa gaaggcaagt gtctcgacag 120
ggcttagtct ccacctcag gcatggaacc attcaggggtg aagcctggga tgtgggcaca 180
ggagactcag gctgatataa aaataacaaa atcagtaata aaaaaattat aaaacctgtt 240
gcttgtctga atagatttga gcaacagtct tgcttttggt aaaatcctgg agccgttaag 300
tcctgaatat tcttctggac atcattgctg gctggagaaa ggagccccag gcccggtctg 360
gctgacatct gtcaggtttg gaagtctcat c 391

```

```

<210> 229
<211> 341
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 202
<223> n = A,T,C or G

```

```

<400> 229
gtccatggct tctcaccag acagtctttc tgggcaactt ggggaagccc ctgttctgct 60
caagtctcac cccatggaag aggtggggga agggggcctt ggtttttcag gaagacgggt 120
tggagagcac gagtcactac aaagcagtaa aagtgaatgg tgtctccagg ggctgggtcc 180
agaacaccgc ggagagcccc anccataaag gtgtgttccg cctctggcct gcaggaatct 240
ctttgaatct ctttgattgg tggctccaag agcaatggga agtcaacagc caggaggctg 300
gactgggttc cctgggaccc cgagggtcca gaggctgctg g 341

```

```

<210> 230
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<400> 230
gtccaagcca aggaaaccat tcccttacag gagacctccc tgtacacaca ggaccgcctg 60
gggctaaagg aaatggacaa tgcaggacag ctagtgtttc tggctacaga aggggacct 120
cttcagttgt ctgaagaatg gttttatgcc cacatcatc cattccttgg atgaaacctg 180
tatagttcac aatagagctc agggagcccc taactcttcc aaaccacatg ggagacagtt 240
tccttcatgc ccaagcctga gctcagatcc agcttgcaac taatccttct atcatctaac 300
atgccctact tggaaagatc taagatctga atcttatcct ttgccatctt ctgttacct 360

```

20250720 22994007

atggtgttga atgcaagttt aattaccatg gagattgttt tacaaacttt tgatgtgggtc 420
aagttcagtt ttagaaaagg gagtctgttc cagatcagtg ccagaactgt gcccaggccc 480
aaaggagaca actaactaaa gtagtgagat a 511

<210> 231
<211> 311
<212> DNA
<213> Homo sapiens

<400> 231
gggtccaagta agctgtgggc aggcaagccc ttcggtcacc tgttgggtac acagacccct 60
cccctcgtgt cagctcaggc agctcagggc ccccgaccaa cacttgcagg gggtccctgct 120
agtttagcgcc ccaccgccgt ggagttcgta ccgcttcctt agaacttcta cagaagccaa 180
gctccctgga gccctgttgg cagctctagc tttgcagtcg tgtaattggc ccaagtcatt 240
gtttttctcg cctcactttc caccaagtggt ctagagtcac gtgagcctcg tgtcatctcc 300
ggggtggacc t 311

<210> 232
<211> 351
<212> DNA
<213> Homo sapiens

<400> 232
tcgttttagct aataatccct tccttgatga taaactccaa cttcttgttt ttctttattt 60
ctaaaaagcg gttctgtaac tctcaatcca gagatgttaa aaatgtttct aggcacggta 120
ttagtaaatc aagtaaatat catgtcctct taaaggacaa acttccagag atttgaatat 180
aaatttttat atgtgttatt gattgtcgtg taacaaatgg cccccacaaa ttagtagctt 240
aaaatagcat ttatgatgtc actgttttct ttgccttttc attaatgttc tgtacagacc 300
tatgtaaaca acttttgtat atgcatatag gatagctttt ttgaggggtat a 351

<210> 233
<211> 511
<212> DNA
<213> Homo sapiens

<400> 233
aggctctggat gtaaggatgg atgctctcta tacatgctgg gttggggatg ctgggactgc 60
acagccaccc ccagtatgcc gctccaggac tctgggacta gggcgccaaa gtgtgcaaat 120
gaaaatacag gatacccagg gaactttgaa ttccagattg tgaaaagaaa acaaatcttg 180
agactccaca atcaccaagc taaaggaaaa agtcaagctg ggaactgctt agggcaaagc 240
tgccctccat tctattcaca gtcattcccc tgaggctcac ctgcatagct gattgcttcc 300
tttcccttat cgcttctgta aaaatgcaga ctactgagc cagactaaat tgtgtgttca 360
gtggaaggct gatcaagaac tcaaaagaat gcaacctttt gtctcttata tactacaacc 420
aggaagcccc cacttaaggg ttgtccacc ttactggact gaaccaaggt acatcttaca 480
cctactgatt gatgtctcat gtccccctaa g 511

<210> 234
<211> 221
<212> DNA
<213> Homo sapiens

<400> 234
cagggtccagc gaaggggctt cataggctac accaagcatg tccacataac cgagggaagct 60
ctctccatca gcatagcctc cgatgaccat ggtgttccac aaaggggttca tcttcgagcg 120

ccggctgtac atggccctgg tcagccatga atgaatagct ctaggactat agctgtgtcc 180
atctcccaga agctcctcat caatcaccat ctggccgaga c 221

<210> 235
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33
<223> n = A,T,C or G

<400> 235
ggtccaagaa agggacatct atgtgaaagt ganactgaga cagtgtctggt cacagggtcat 60
gctgcagaat aatacattcc caggcactgt cacgtggggg acccaagagg ccccaggagt 120
gacctataac ctctccagaa agaccactct gtgtggcatc acagtccaca cagttaaagg 180
aaatatttag acttaacaat cagacaccag ctcttactca cacttacact cacagcccac 240
acacaagtgt gcaaacatac acacacatat atatttcctg atacattcat ggaatatcag 300
agccctgccc tgaagtcggt agtgtctctg ctccccaac cgctgtctccc acattggcta 360
agctccctca agagacctca g 381

<210> 236
<211> 441
<212> DNA
<213> Homo sapiens

<400> 236
aggctctgtt gcccttttct tttgccaac ttcgccattt ggggaattgga atatttaccc 60
aacacctgta ctgcattgaa tattggaagc aaataacttg gctttgatct tatagggtca 120
cagatggagg aacgtacctt gaagttcaga tgagatttcg gacttttgag ttgatgctga 180
aacagcttga gatttttggg gactactgag agatgataat tgtattgtgc aatatgagaa 240
ggacatgaga tttggtgggc ataggtgtga aatgacattg tttggatgtg tttaccctcc 300
aaatctcttg ttgaatgtga tcttaaactg tgggtgggtgg cctagtggaa ggtgttgaat 360
catgggggtg gactcttcat aatttgctta gctccatccc cttggtgatg agcaagtcct 420
tgctctgttg tgtcacatga g 441

<210> 237
<211> 281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 81, 90, 194, 209, 210, 211, 219, 233
<223> n = A,T,C or G

<400> 237
tcctaaaaaa ttagctgacc ttgttaaaaa tgttggcgtg agcagtatat tattacctat 60
ctttttttat tgtgtgtgtg nggtgtgtgn ttaaactaat tggctgaaat atctgcctgt 120
ttccctcttt acatttttct tgtttctttc cttattttatc tttgtccatc ttgagatcta 180
ctgtaaaagt aatnttttaa tgaaaacann nccaagttnt actctcactg ggnttgggac 240
atcagatgta attgagaggg caacaggtaa gtcttcatgt c 281

20076622.001

<210> 238
 <211> 141
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 85
 <223> n = A,T,C or G

<400> 238
 gtctgcctcc tcctactggt tccctctatn aaaaagcctc cttggcgag gttccctgag 60
 ctgtgggatt ctgcactggt gcttnggatt ccctgatatg ttccttcaaa tccactgaga 120
 attaaataaa catcgctaaa g 141

<210> 239
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29, 30, 65, 86, 471, 489
 <223> n = A,T,C or G

<400> 239
 aacaatctaa acaaatccct cggttctann atacaatgga ttccccatat tggaaggact 60
 ctgangcttt attccccac tatgcntatc ttatcatttt attattatac acacatccat 120
 cctaaactat actaaagccc ttttcccatg catggatgga aatggaagat ttttttttaa 180
 cttgttctag aagtcttaat atgggctggt gccatgaagg cttgcagaat tgagtccatt 240
 ttctagctgc ctttattcac atagtgatgg ggtactaaaa gtactgggtt gactcagaga 300
 gtcgtgtca ttctgtcatt gctgtactc taacactgag caacactctc ccagtggcag 360
 atccccgtga tcattccaag aggagcattc atccctttgc tctaataatg aggaatgatg 420
 cttattagaa aacaaactgc ttgacccagg aacaagtggc ttagcttaag naaacttggc 480
 tttgctcana tccctgatcc t 501

<210> 240
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 240
 tgtcctgaaa ggccattact aatagaaaca cagcctttcc aatcctctgg aacatattct 60
 gtctggggtt ttaatgtctg tggaaaaaaa ctaaacaaagt ctctgtctca gtttaagagaa 120
 atctattggt ctgaagggtt ctgaacctct ttctgggtct cagcagaagt aactgaagta 180
 gatcaggaag gggctgcctc aggaaaattc ctagatccta ggaattcagt gagaccctgg 240
 gaaggaccag catgctaata agtgctcagt aatccacagt ctttacttcc tgcctcataa 300
 agggccagggt ctccccagta ccaagtcctt tccatcatgaa gttgtgttgc ctgaggtgt 360
 ttagggacca ttgcctgtct tggtcacatg agtctgtctc cttacttttag tccctgggca 420
 atccttgctt aatgcttttg ttgactcaac g 451

<210> 241
 <211> 411
 <212> DNA

20076622.000000

<213> Homo sapiens

<220>

<221> misc_feature

<222> 62, 82, 364, 370, 385

<223> n = A,T,C or G

<400> 241

```
aatctccagt gtgatggat cgggggttaga gcttcaatct ccagtgtgat ggtactgcag 60
cnagagcttc aatctccagt gngatggat taggggttaga tcttcaatct ccagtgtgat 120
ggatcaggg ttagagcttc agcctccagt gtgatggat caggggttaga gcttcagcct 180
ccagtgtgat ggtatcgggg ttagatcttc aatccccagt ggtgggtggt agagcttcaa 240
tctccagtgt gatggattg ggggttagagc ttcaatctcc agtctgatgg tgtttcggga 300
tggggctttt aagatgtaat tagggtttaa gatcataagg gacctgggtc gatggggatt 360
agtncgcttn tatgaagaga cacangaggg cttgctctat ctctgactct c 411
```

<210> 242

<211> 351

<212> DNA

<213> Homo sapiens

<400> 242

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ttcccccttca caacagtaga gacctacaca gtgaactttg gggacttctg agatcagcgt 60
cctaccaaga cccagacca actcaagcta cagcagcagc acttccaag cctgctgacc 120
acagtcacat caccatcag cacatggaag gcccttggt tggacactga aaggaagggc 180
tggctctgcc cttttgagg ggtgcaaaca tgaactggac ctaagagcca gaggtgtgt 240
agaggctcct gctccacctg ccagtctcgt aagaaatggg gttgctgcag tgttgagta 300
ggggcagagg gagggagcca aggtcactcc aataaaacaa gctcatggca c 351
```

<210> 243

<211> 241

<212> DNA

<213> Homo sapiens

<400> 243

```
gtctgtgctt tatcaggaaa agcacaagaa tatgtttttc tacctaaaac cctcttctac 60
tttaaaaaatg gtttgctgaa tttttctatg tttttaaaat gtttttatgc ttttttttaa 120
acacgtaaag gatggaacct aatcctctcc cgagacgcct cctttgtgtt aatgcctatt 180
cttacaacag agaaacaagt acattaatat aaaaacgagt tgattattgg ggtataaaat 240
a 241
```

<210> 244

<211> 301

<212> DNA

<213> Homo sapiens

<400> 244

```
ggtccagagc aatagcgtct gtggtgaagc gcctgcactc ctggggagac atgcctggct 60
tatatgctgc atccacataa ccatagataa aggtgctgcc ggagccacca atggcaaaag 120
gctgtcgagt cagcattcct cccagggttc catatacctg acctccttca cgttgggtccc 180
agccagctac catgagatgt gcagacaagt cctctcgata tttatagctg atatttctca 240
ccacatttgc agcagccaaa acaagtggag gttcctccag ttctatccca tggagctcca 300
g 301
```

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<210> 245
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 245
 ctgacactgc tgatgtgggc cgggggggcgc cgaggcacia ctggtggccg gaccattgag 60
 gcacctggag ggtaggcagc ttgtggtgca gacaccacag agagagaaaa gttggatgga 120
 gtggtgggaa taatcagggg ggcacactgt gcctagaagc ttccagggcc accaagagaa 180
 tgggaaggga aactacaaca ttcacaacag aaataggagt caattcactt agaccagaa 240
 ctccagaaag ggggagtgta ggaatctaca atttcaaagc cagctcgtgt ctacctagag 300
 ccccaaactg cataagcacc aggattgtac accttagtcc ctcaagatag tttcaagtga 360
 gcgtgcaatt cactcttaca gaggagggcc t 391

<210> 246
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 80, 82, 185, 255, 259
 <223> n = A,T,C or G

<400> 246
 tcctccacag gggaagcagg aagttnagc agcttcaggc tggaacgtgc ccagggcaca 60
 gagctggcaa ggtgcaaagn cntctgcaga atattcacca ggttgacaca gacctccaca 120
 ttcagacata ttccaagctt ctgggggtctt cagggcccca gaatttctct gtcttgggca 180
 tggtnacaaa gtcatttgct cttcctcatt ttggaagggt ccatttggac ataaaatgca 240
 agcgttctct tgctncatna taatagggtcc cagcctgcac tgacacattt g 291

<210> 247
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 80, 110, 125, 245, 249, 279, 318, 336, 339, 455, 471
 <223> n = A,T,C or G

<400> 247
 cactgagtga atgagtatat aatttatgaa aacagaaaag tgctttggaa aaaaaaaaag 60
 acaacaggag tacatacagn gaacaaaaaa gagtgtacca ggaggagcan accctgaaca 120
 gttanaacta tggaaatcgc tatgctttgt gttgtcacag gagttaaaat aggaataccc 180
 tgcatacaat aaatatattat tggataaata actaagcctg ataccctttt caatgcgtta 240
 tacanactnt atcatcacac cactaatcta agttctcana agttaaacat tacaagactt 300
 cagaacaaca taggcgtntt tggtccatt taacanaana aggaccatag tgatcattta 360
 atctctatga gtctgtctta tcttctggaa aaggggccta acaccatttc cttttgcaaa 420
 aaggtagctg ccttgcttcc agttctacca tcctntagca acccatcttt n 471

<210> 248
 <211> 551
 <212> DNA

10076622.021302

<213> Homo sapiens

<400> 248

```
ccatgggatc aggaatgggg tcagggtcagt tgacctgagc ataccatta aacatgttca 60
aatgtcccca tcccaccac tcacatgaca tggctccga gccctgagat ctgtatcca 120
agaacctcag ttgagaaata tttatggcag cttcactgtt gctcaagagc ctgggtattg 180
tagcagcctg ggggcagggt gtccctaagt ttctccaagt tcttcacatc agccagaatc 240
ccatctatgc ttgtctccag caaatggagg tggccctct gctgacgtgc cctctcttcc 300
agctctgaca tcatgggccg cagttggctg ttgatctggg tcttggctcg ggaaagcttc 360
tgctccagta agaccagccc ctcttcatct acactgagag gctgggccat cagatgcagg 420
aggccgtcta atgtgttgag tgtgtcttgg attgtaaccc cagcgttctt ggctctggta 480
tcaaccttct gggcttctgt aatcaccatc tgtactgcat ccatattcgt gtcgaactcc 540
agctccttcc t 551
```

<210> 249

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 96

<223> n = A,T,C or G

<400> 249

```
atntccagag ggaccgtaag actggtacaa gtttacacca taagaggcga cgtggtcagc 60
cacaatgtct tcacctccac aggggctcat cacgngggtc agggcaaggg cccccagcat 120
cagagctttg tttaggatca tcctcttccc aaggcagcct tagcagttgc tgacctgccc 180
g 181
```

<210> 250

<211> 551

<212> DNA

<213> Homo sapiens

<400> 250

```
tctgtagcta ggatgagctg gctctcaagc aaaagtttgt cttcctgggt ccatttgtgg 60
ttatcacttg ttattgaatg tacatcacaa attaaagtct gcattgttgg acgtaagaga 120
atgtgccgac tttggtaacc aggagatttc atgttactgg actgcctgta gtcacgtatt 180
tctgctatga cacatccgca atgaaaaata ttaacctgag atttttctag gagatcaacc 240
aaaataggag gtaattcttc tgcattccaa tattcaagca actctccttc ttcattagggc 300
agtcgaatgg tctcggaatc tgatccgttt tttccctga gcatcagaga atatccctca 360
tttcttgggt atagattgac cactaaacat gacaaagtct cttgcataac aagcttctct 420
aacaagttca catttcttct taatttctta acttcagggt ctttttcaca ttcttcaata 480
tacaagtcac aaagtttttg aaatacagat tttcttccac ttgataggta tttcctttta 540
ggaggtctct g 551
```

<210> 251

<211> 441

<212> DNA

<213> Homo sapiens

<400> 251

```
tgtctgctct cccatcctgg ttactatgag tcgctcttgg cagaaaggac cacagatgga 60
```

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```

gagcttggca ctcgctccaa ctttgccgaa aagaggacaa ccaccaaagt agtaggtaaa 120
aacacaattt tagcagcagt gaaataaaaa gaggaagtga ggatggggcc aggccgcaac 180
tataattaaa ctgtctgttt aggagaagct gaatccagaa gaaacacaag ctgtaaagtg 240
agagaggaca gggagcaggg cctttggaga gcaggagagg acaggctgtc accaagcgct 300
gctcggactc tgccctgaaa gatttgaatt ggacactgtc cagtacgtg tgtggcaaac 360
cgtactccaa gcacttttct cacggcagag gaaggagctg ccatggctgt acccctgaac 420
gtttgtgggg ccagcgatgt g                                     441

```

```

<210> 252
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<400> 252
tttttttttg aacaagtaaa aatttcttta tttgctgaca ataagataac ctacagggaa 60
aacctgatga aatctattaa aaagttacta aaactaataa aagaatttag gaaggttata 120
gaatgtaaga ccaagacaca aaaatcaatt acatttctat ataatagcaa tgaacagata 180
ctgaaatttt aaaaactaaa tcattttaca aaagtatcac aatatgaaac actccgggat 240
aaattggata aaagatgtgc aagactgtac aaaagctaca aaacatttat gaaggaaatt 300
ggaagataga aacaagatag aaaatgaaaa tattgtcaag agtttcagat agaaaaatgaa 360
aaacaagcta agacaagtat tggagaagta tagaagatag aaaaaat                                     406

```

```

<210> 253
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 224
<223> n = A,T,C or G

```

```

<400> 253
gaaggagttc agtagcaaaag tcacacctgt ccaattccct gagctttgct cactcagcta 60
atgggatggc aaaggtggtg gtgctttcat cttcaggcag aagcctctgc ccatccccct 120
caagggtctg agggccagtt ctcatgctgc cttgggtgg gcactgttta acagaggaga 180
acgtctgggt ggcggcagca gctttgctct gagtgcctac aaanctaata cttggtgcta 240
gaaacatcat cattattaaa cttcagaaaa gcagcagcca tgttcagtca ggctcatgct 300
gcctcactgc ttaagtgcct gcaggagccg cctgccaagc tcccccttct acacctggca 360
cactggggtc tgcacaaggc tttgtcaacc aaagacagct tccccctttt gattgcctgt 420
agactttgga gccaaagaaac actctgtgtg actctacaca cacttcaggt ggtttgtgct 480
tcaaagtcac tgatgcaact tgaaaggaaa cagtttaatg gtggaaatga actaccattt 544
ataa

```

```

<210> 254
<211> 339
<212> DNA
<213> Homo sapiens

```

```

<400> 254
tggcattcag ggcagtgtct tctgcactct ctaggaacct cgggagcggc agctccggcg 60
cctggtagcg agaggcgggt tccggagatc ccggcctcac ttcgtccac tgtgggttagg 120
ggtagtccct gcaaatgtta agtgatttgc tcaagggtgc catttcgcag gaattggagc 180
ccaggccagt tctctgagcc tatcattagg gctaaaggag tgcgtgatca gaatggtgtc 240

```

tggacgggttc tacttgtcct gcctgctgct ggggtccctg ggctctatgt gcatcctctt 300
cactatctac tggatgcagt actggcgtgg tggctttgc 339

<210> 255
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 39, 70, 87, 103, 120, 177, 181, 220, 229, 233, 341, 345,
366, 380, 402
<223> n = A,T,C or G

<400> 255
gagggtttttt nttttttttt tttttttttt caattaaana tttgatttat tcaagtatgt 60
gaaaacattn tacaatggaa acttttntta aatgctgcat gtncgtgtgt atggaccacn 120
cacatacagc catgctgttt caaaaaactt gaaatgccat tgatagttaa aaaactntac 180
ncccgatgga aaatcgagga aaacaattta atgtttcatn tgaatccana ggngcatcaa 240
attaaatgac agctccactt ggcaaataat agctgttact tgatggatc caaaaaaaaa 300
tggttgggga tggataaatt caaaaatgct tccccaaagg ngggnggttt ttaaaaagt 360
tcaggncaca acccttgcac aaaacactga tgcccaacac antga 405

<210> 256
<211> 209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6
<223> n = A,T,C or G

<400> 256
gggcangtct ggtcctctcc ccacatgtca cactctcctc agcctctccc ccaaccctgc 60
tctcctcct cccctgccct agcccaggga cagagtctag gaggagcctg gggcagagct 120
ggaggcagga agagagcact ggacagacag ctatggtttg gattggggaa gaggttagga 180
agtaggttct taaagaccct tttttagta 209

<210> 257
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 306, 311, 343
<223> n = A,T,C or G

<400> 257
tctggacacc ataatccctt ttaagtggct ggatgggtcac acctctccca ttgacaagct 60
gggttaagtc aataggttga ctaggatcaa cagacccaa atcaataaga tactgcagtc 120
tattgagact caaaggctta tactggcgct tgaaactatg tccttcgtta aaccggtatt 180
ttgggattcg gatgtaaaat ggagtctggc ctccctcaaa gcccgaagcg ggccgggttc 240

1007639.0301

ctcttttgctt ttctccttta tggcctctgc cacatcttct acctcttctc cgacctcttg 300
gtcttntctc nggtttcttg gagccgggat tcggctttaa gtn 343

<210> 258
<211> 519
<212> DNA
<213> Homo sapiens

<400> 258
gcggcttctg acttctagaa gactaaggct ggtctgtgtt tgcttggttg cccacctttg 60
gctgataccc agagaacctg ggcacttgct gcctgatgcc cacccttgcc agtcattcct 120
ccattcaccc agcgggagggt gggatgtgag acagcccaca ttggaaaatc cagaaaaccg 180
ggaacaggga tttgcccttc acaattctac tccccagatc ctctcccctg gacacaggag 240
acccacaggg caggacccta agatctgggg aaaggagggtc ctgagaacct tgaggtagcc 300
ttagatcctt ttctacccac tttcctatgg aggattccaa gtcaccactt ctctcacccg 360
cttctaccag ggtccaggac taaggcggtt tctccatagc ctcaacattt tgggaatctt 420
cccttaatca cccttgctcc tcttggtggtc ctggaagatg gactggcaga gacctctttg 480
ttgcgttttg tgctttgatg ccaggaatgc cgcctagtt 519

<210> 259
<211> 371
<212> DNA
<213> Homo sapiens

<400> 259
attgtcaact atatacacag tagtgaggaa taaaatgcac acaaaacaat ggatagaata 60
tgaaaatgtc ttctaaatat gaccagtcta gcatagaacc ttcttctctt ccttctcagg 120
tcttccagct ccatgtcatc taaccactt aacaaacgtg gacgtatcgc ttccagaggc 180
cgtcttaaca actccatttc caaaagtcac ctccagaaga catgtatttt ctatgatttc 240
ttttaaacia atgagaattt acaagatgtg taactttcta actctatttt atcatatcgc 300
ggcaacctct ttccatctag aagggtctaga tgtgacaaat gttttctatt aaaagggttg 360
ggtggagttg a 371

<210> 260
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 57, 189, 208, 256, 426
<223> n = A,T,C or G

<400> 260
ttggattttt tgacttgcca tttcagtttt tttacttttt tttttttttt ttttganaaa 60
tactatatatt attgtcaaag agtggtacat aggtgagtggt tcatcttccc tctcatgccg 120
gtatactctg ctctgctggt tcagtaaaag ttttccgtag ttctgaacgt cccttgacca 180
caccataana caagcgcaag tcaactcanaa ttgccactgg aaaactggct caactatcat 240
ttgaggaaaag actganaaag cctatcccaa agtaatggac atgcaccaac atcgcggtag 300
ctacatgttc ccgtttttct gccaatctac ctgtgtttcc aagataaatt accaccagg 360
gagtcacttc ctgctatgtg aacaaaaacc cggtttcttt ctggagggtgc ttgactactc 420
tctcngagc 430

<210> 261

<211> 365
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 178
 <223> n = A,T,C or G

<400> 261
 tcctgacgat agccatggct gtaccactta actatgattc tattccaact gttcagaatc 60
 atatcacaaa atgacttgta cacagtagtt tacaacgact cccaagagag gaaaaaaaaa 120
 aaaaaagacg cctcaaaatt cactcaactt ttgagacagc aatggcaata ggcagcanag 180
 aagctatgct gcaactgagg gcacatatca ttgaagatgt cacaggagtt taagagacag 240
 gctggaaaaa atctcatact aagcaaacag tagtatctca taccaagcaa aaccaagtag 300
 tatctgctca gcctgccgct aacagatctc acaatcacca actgtgcttt aggactgtca 360
 ccaaa 365

<210> 262
 <211> 500
 <212> DNA
 <213> Homo sapiens

<400> 262
 cctagatgtc atttgggacc cttcacaacc attttgaagc cctgtttgag tccctgggat 60
 atgtgagctg tttctatgca taatggatat tcgggggttaa caacagtccc ctgcttggct 120
 tctattctga atccttttct ttcaccatgg ggtgcctgaa ggggtggctga tgcatatgg 180
 acaatggcac ccagtgtaaa gcagctacaa ttaggagtgg atgtgttctg tagcatccta 240
 tttaaataag cctattttat cctttggccc gtcaactctg ttatctgctg cttgtactgg 300
 tgctgtact tttctgactc tcattgacca tattccacga ccatggttgt catccattac 360
 ttgatcctac tttacatgtc tagtctgtgt ggttgggtgg gaataggctt ctttttacat 420
 ggtgctgcc aagcagctaa ttaatgggtgc acgtggactt ttagcaagcg ggctcactgg 480
 aagagactga acctggcatg 500

<210> 263
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 263
 ctccagagagg ttgaaagatt tgcctacgaa agggacagtg atgaagctaa gctctagatc 60
 caggatgtct gacttcaaat tgaaactccc aaagtaatga gtttggaagg gtgggggtgtg 120
 gcctttccag gatgggggtc ttttctgctc ccagcggata gtgaaacccc tgtctgcacc 180
 tgggtgggagc tgttgctttc ccaaagggtt tttttttagg tccgtcgctg tcttgtggat 240
 taggcattat tatctttact ttgtctccaa ataacctgga gaatggagag agtagtgacc 300
 agctcagggc cacagtgcga tgaggacat cttctcacct ctctaaatgc aggaagaaac 360
 gcagagtaac gtggaagtgg tccacaccta ccgccagcac atttgtaatg aca 413

<210> 264
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 264

```

tccaatgggg ccctgagagc tgtgacagga actcacactc tggcactggc agcaaaacac 60
cattccaccc cactcatcgt ctgtgcacct atgttcaaac tttctccaca gttccccaat 120
gaagaagact catttcataa gtttgtggct cctgaagaag tcctgccatt cacagaaggg 180
gacattcttg agaaggctag cgtgcattgc cctgtgtttg actacgttcc cccagagctc 240
attaccctct ttatctccaa cattggtggg aatgcacctt cctacatcta ccgcctgatg 300
agtgaactct accatcctga tgatcatgtt ttatgaccga ccacacgtgt cctaagcaga 360
ttgcttaggc agatacagaa tgaagaggag acttgagtgt tgctgctgaa gcacatcctt 420
gcaatgtggg agtgcacagg agtccacctt aaaaaaaaaa tccttgatac tggtgcctgc 480
cttttttagtc accccgtaac aagggcacac atccaggact gtgt 524

```

```

<210> 265
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<400> 265
tcctttcttc tacttcagga gatgattcaa agttacttgt ggacatttct ttaagttctg 60
aagacaaatg agacaggatt tggcctgcgg gttcttcaga cttctctacc acctccatta 120
actcttcac tggccttgac gtaggcaatg cactattttg ctcttttggt tctggagatg 180
accagcacc acttctttct cttggcgggg ttctaagtgt gtctttgaat accagtgaag 240
actcaggcct atcctgtact ggaaaggggac taaatttgtc tttctgtcta ggaggatgatg 300
cagtagcatc ctcttgaggg ggtaaggcca ttttctcttt ttga 344

```

```

<210> 266
<211> 210
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78
<223> n = A,T,C or G

```

```

<400> 266
ccacaatgtc cataacttga gcaggctttg gcattcccacc acccccttca gaccaatata 60
cactatgttg gaggaacnac tttaaaatgt aaaatgagaa atgggcactg aacactccat 120
cctcactccc aacagcccac ccacacacct cttcaactgc tatccaaaca tggaggagct 180
cttgtggaag agaggctcaa caccaaataa 210

```

```

<210> 267
<211> 238
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 19, 31
<223> n = A,T,C or G

```

```

<400> 267
tcggnccctc caccctctna ctgaaattct ntgaaattct cccctttggg atgaggatgg 60
caaccccgag catgtacct cccaacctgg gaccgcacct aataccctaa catcctgctg 120
acagtggctg ttctcgctgg gcaggcgctc caaagcacat cgagccagat tcaggcagag 180
tggaactggc cctcagcca tcagtggagg tggcctggga ggctctacct tgaacggg 238

```

20076622.0230

<210> 268
 <211> 461
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 459
 <223> n = A,T,C or G

<400> 268
 tcctcaagga catgcccctt gatagaaact cagttcctgt ctccagttcc ctccctggacc 60
 tgatccccc aatgcagggc ctgggactat atccagttcc ttattttcag aggcccatgc 120
 acaagatgca cagcaaataa gtgctgaata aagaccacgc tactgctagc ttaccctgct 180
 ccaaacattc accaagtcct cagcaaagag ggccatccat tcacctcttc taaaaacaca 240
 ctgagctccc cagtcctatac cccaagatat gcttggtccc caactatccc tcctctctca 300
 tctccaagcc agtttcccct ttctaagtat actgatatta ccaaagacac tgacaatctt 360
 cttttcctac ctctcccag tgactagggt tgcagcagga gctctataag tcctagtata 420
 cagcagaagc tccataaatg tgtgctgacc taacattang c 461

<210> 269
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 269
 ctgtgttggt gagcacccgat tcccactcaa tatggcgtgg cttacagtct tcattaggtt 60
 cccgctccca accagaatga ggaatgatca ctcatctgt caaggcatgc agtgcattgt 120
 ccacaatctc catttttgatt gagtcatggg atgaaagatt ccacagggtt ccggtataata 180
 cttcagtaag gtccatatca cgagcctttc gaagcaatcg cacaagggca ggcacacccat 240
 cacagttttt tatggcaatc ttgttatcct ggtcacgtcc aaaagagata ttcttgagag 300
 ctccacaggc tccaaggtgc acttcctttt tgggatggtc taacaatccc accagtactg 360
 ggatgccctt gagcttccgc acgtcagtct tcaccttgtc attgcggtag cataagtgtt 420
 gcagggtatgc aaga 434

<210> 270
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 270
 ctgcaccagc gattaccagt ggcattcaaa tactgtgtga ctaaggattt tgtatgctcc 60
 ccagtagaac cagaatcaga caggtatgag ctagtcaaca gcaagtcttt gttggattcg 120
 agtaggctca ggatctgctg aaggctcggag gagtta 156

<210> 271
 <211> 533
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 100, 137, 383, 385, 411

<223> n = A,T,C or G

<400> 271

```
ccactgtcac ggtctgtctg acacttactg ccaaacgcat ggcaaggaaa aactgcttag 60
tgaagaactt agaagctgtg gagaccttgg ggtccacgtn caccatctgc tctgataaaa 120
ctggaactct gactcanaac cggatgacag tggccacat gtggtttgac aatcaaatacc 180
atgaagctga tacgacagag aatcagagtg gtgtctcttt tgacaagact tcagctacct 240
ggcttgctct gtccagaatt gcaggctctt gtaacagggc agtgtttcag gctaaccagg 300
aaaacctacc tattcttaag cgggcagttg caggagatgc ctctgagtca gcactcttaa 360
agtgcataga gctgtgctgt ggntncgtga aggagatgag agaaagatac nccaaaatcg 420
tcgagatacc cttcaactcc accaacaagt accagttgtc tattcataag aacccaaca 480
catcggagcc ccaacacctg ttggtgatga agggcgcccc agaaaggatc cta 533
```

<210> 272

<211> 630

<212> DNA

<213> Homo sapiens

<400> 272

```
tggatatttt ctttttcttt tggatgtttt atactttttt ttcttttttc ttctctattc 60
ttttcttcgc cttcccgtag ttctgtcttc cagtttttcca cttcaaactt ctatcttctc 120
caaattgttt catcctacca ctcccaatta atctttccat ttctgtctgc gtttagtaaa 180
tgcgttaact aggcctttaa tgacgcaatt ctccctgcgt catggatttc aaggctcttt 240
aatcaccttc ggtttaatct ctttttaaaa gatcgcttc aaattatttt aatcacctac 300
aacttttaaa ctaaacctta agctgtttta gtcaccttca ttttaattct aaagcattgc 360
ccttctattg gtattaatct ggggctctgt agtcctttct ctcaattttc ttttaaatat 420
attttttact ccatgaagaa gcttcatctc aacctcgcgc atgttttaga aaccttttat 480
cttttccttc ctcatgctac tcttctaagt ctcatattt tctcttaaaa tcttaagcta 540
ttaaatttac gttaaaaact taacgctaag caatatctta gtaacctatt gactatattt 600
tttaagtagt tgtattaatc tctatctttc 630
```

<210> 273

<211> 400

<212> DNA

<213> Homo sapiens

<400> 273

```
tctggtttgc cctccagttc attctgaatc tagacttgct cagcctaatc aagttcctgt 60
acaaccagaa ggcacacagg ttcccttggg atcatccaca agtgaggggt acacagcatc 120
tcaacccttg taccagcctt ctcatgctac agagcaacga ccacagaagg aaccaattga 180
tcagattcag gcaacaatct ctttaaatac agaccagact acagcatcat catcccttcc 240
tgctgcgtct cagcctcaag tatttcaggc tgggacaagc aaacctttac atagcagtgg 300
aatcaatgta aatgcagctc cattccaatc catgcaaacg gtgttcaata tgaatgcccc 360
agttcctcct gttaatgaac cagaaacttt aaaacagcaa 400
```

<210> 274

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2

<223> n = A,T,C or G

100666_02992007

```

<400> 274
tntgagtatg tcccagagaa ggtgaagaaa gcggaaaaga aattagaaga gaatccatat 60
gaccttgatg cttggagcat tctcattcga gaggcacaga atcaacctat agacaaaagca 120
cggaagactt atgaacgcct tggtgcccag ttccccagtt ctggcagatt ctggaaaactg 180
tacattgaag cagagggttac tattttatct tattttttct tatatcagta ttgcagcatt 240
cactgtagtg atagaaaaca agttaggaac atagccaatt aggacaagga ggattttaat 300
gtgtcttacc tttattttgt aaaataggta taaaggagta attaaaaatga a 351

```

<210> 275

<211> 381

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 11, 12, 13

<223> n = A,T,C or G

```

<400> 275
gcnnggtcgc nnncgaggtc tgagaagccc ataccactat ttgttgagaa atgtgtggaa 60
tttattgaag atacagggtt atgtaccgaa ggactctacc gtgtcagcgg gaataaaaact 120
gaccaagaca atattcaaaa gcagtttgat caagatcata atatcaatct agtgtcaatg 180
gaagtaacag taaatgctgt agctggagcc cttaaagctt tctttgcaga tctgccagat 240
cctttaattc catattctct tcatccagaa ctattggaag cagcaaaaat cccggataaa 300
acagaacgtc ttcattgcctt gaaagaaatt gttaagaaat ttcattcctgt aaactatgat 360
gtattcagat acgtgataac a 381

```

<210> 276

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5

<223> n = A,T,C or G

```

<400> 276
gctcngactc cggcgggacc tgctcggagg aatggcgccg ccgggttcaa gcaactgtctt 60
cctgttggcc ctgacaatca tagccagcac ctgggctctg acgcccactc actacctcac 120
caagcatgac gtggagagac taaaagcctc gctggatcgc cctttcaca atttggaatc 180
tgctttctac tccatcgtgg gactcagcag ccttggtgct caggtgccag atgcaaagaa 240
agcatgtacc tacatcagat ctaaccttga tcccagcaat gtggattccc tcttctacgc 300
tgcccaggcc agccaggccc tctcaggatg tgagatctct atttcaaag agaccaaaaga 360
tctgcttctg gcagacctcg gccgcgacca 390

```

<210> 277

<211> 378

<212> DNA

<213> Homo sapiens

<400> 277

```

tgggaacttc tggggtagga cgttgtctgc tatctccagt tccacagacc caaccagtta 60

```

20070320 22:00

cgatgggtttt ggaccattta tgccgggatt cgacatcatt ccctataatg atctgcccgc 120
 actggagcgt gctcttcagg atccaaatgt ggctgcgttc atggtagaac caattcaggg 180
 tgaagcaggc gttgttggtc cggatccagg ttacctaatg ggagtgcgag agctctgcac 240
 caggcaccag gttctcttta ttgctgatga aatacagaca ggattggcca gaactggtag 300
 atggctggct gttgattatg aaaatgtcag acctgatata gtcctccttg gaaaggccct 360
 ttctgggggc ttataccc 378

<210> 278
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 278
 ggagggcaca ttctttttca cctcagagtc ggtcggggaa ggccaccag ataagatttg 60
 tgaccaaacc agtgatgctg tccttgatgc ccaccttcag caggatcctg atgccaaagt 120
 agcttgtaga actggttgcta aaactggaat gatccttctt gctggggaaa ttacatccag 180
 agctgctggt gactaccaga aagtgggttcg tgaagctggt aaacacattg gatatgatga 240
 ttcttccaaa ggttttgact acaagacttg taacgtgctg gtagccttgg agcaacagtc 300
 accagatatt gctcaagggtg ttcactcttg cagaaatgaa gaagacattg gtgctggaga 360
 ccaggg 366

<210> 279
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 279
 cctaagaact gagacttggtg acacaaggcc aacgacctaa gattagccca gggttgtagc 60
 tggaagacct acaacccaag gatggaaggc ccctgtcaca aagcctacct agatggatag 120
 aggacccaag cgaaaaagat atctcaagac taacggccgg aatctggagg cccatgaccc 180
 agaaccagg aaggatagaa gcttgaagac ctggggaaat cccaagatga gaaccctaaa 240
 ccctacctct tttctattgt ttacacttct tactcttaga tatttccagt tctcctgttt 300
 atctttaagc ctgattcttt tgagatgtac tttttgatgt tgccgggttac ctttagattg 360
 acaagtatta tgccctggcca gtcttgagcc agctttaaat cacagctttt acctatttgt 420
 taggctatag tgttt 435

<210> 280
 <211> 435
 <212> DNA
 <213> Homo sapiens

<400> 280
 tctggatgag ctgctaactg agcacaggat gacctgggac ccagcccagc cccccgaga 60
 cctgactgag gccttcctgg caaagaagga gaaggccaag gggagccctg agagcagctt 120
 caatgatgag aacctgcgca tagtggtggg taacctgttc cttgccggga tggtagaccac 180
 ctcgaccacg ctggcctggg gcctcctgct catgatccta cacctggatg tgcagcgtga 240
 gccagacct gtccggggcg ccgctcgaaa ttccagcaca ctggcgggcg ttactagtgg 300
 atccgagctc ggtaccaagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt 360
 gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt aaagcctggg 420
 gtgcctaata agtga 435

<210> 281
 <211> 440
 <212> DNA

<213> Homo sapiens

<400> 281

```
catctgatct ataaatgcgg tggcatcgac aaaagaacca ttgaaaaatt tgagaaggag 60
gctgctgaga tgggaaaagg ctccttcaag tatgcctggg tcttggataa actgaaagct 120
gagcgtgaac gtggtatcac cattgatatc tccttgtgga aatttgagac cagcaagtac 180
tatgtgacta tcattgatgc cccaggacac agagacttta tcaaaaacat gattacaggg 240
acatctcagg ctgactgtgc tgtcctgatt gttgctgctg gtgttggtga atttgaagct 300
ggtatctcca agaatgggca gacccgagag catgcccttc tggcttacac actgggtgtg 360
aaacaactaa ttgtcgggtg taacaaaatg gattccactg agccccctac agccagaaga 420
gatatgagga aattgttaag                                     440
```

<210> 282

<211> 502

<212> DNA

<213> Homo sapiens

<400> 282

```
tctgtggcgc aggagcccc tccccggcga gctctgacgt ctccaccgca gggactgggtg 60
cttctcggag ctcccactcc tcagactccg gtggaagtga cgtggacctg gatccactg 120
atggcaagct cttccccagc gatggttttc gtgactgcaa gaagggggat cccaagcacg 180
ggaagcggaa acgaggccgg ccccgaaaagc tgagcaaaga gtactgggac tgtctcgagg 240
gcaagaagag caagcacgcg cccagaggca cccacctgtg ggagttcac cgggacatcc 300
tcatccaccc ggagctcaac gagggcctca tgaagtggga gaatcggcat gaaggcgtct 360
tcaagttcct gcgctccgag gctgtggccc aactatgggg ccaaaagaaa aagaacagca 420
acatgacctc cgagaagctg agccgggcca tgagggtacta ctacaaacgg gagatcctg 480
aacgggtgga tggccggcga ct                                     502
```

<210> 283

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 130, 147, 221, 225, 242, 246, 261, 279, 292, 294, 298, 314, 323, 332, 339, 342, 343, 350, 351, 356, 361, 362, 368, 372, 375, 379, 380, 382, 387, 390, 392, 394, 401, 404, 406, 409, 413, 423, 431, 433

<223> n = A,T,C or G

<400> 283

```
ccatattaga ttactggaac atctaagcat cagtgtgtga ccatgcgaac aaaagacttc 60
ggggagtgtc tatttttaaa aaggtttatg tgtgtcgagg cagttgtaaa agatttactg 120
cagaatcaan cccactttta ggcttangac caggttctaa ctatctaaaa atattgactg 180
ataacaaaaa gtgttctaaa tgtggctatt ctgatccata nttgnttttt aaagaaaaaa 240
antgntata cagaaagagt ntaaaagttc tgtgaattna atgcaaatta gncnccantc 300
ttgacttccc aaanacttga ttnatacctt tnactcctnt cnnttcctgn ncttcnttaa 360
nntcaatnat tnggnagtnn anggccntcn gnanaacacc nttncncgnt ccncgcaatc 420
canccgcctt nan                                     433
```

<210> 284

<211> 479

<212> DNA

100662.0307

<213> Homo sapiens

<400> 284

```
tctggaagga tcagggatct gagcaaagcc aagtttactt aagctaagcc acttgttcct 60
gggtcaagca gtttgttttc taataagcat cattcctgat cattagagca aagggatgaa 120
tgctcctctt ggaatgatac aggggatctg ccaactggag agtggtgctc agtggttagag 180
tagcagcaat gacagaatga cagcgactct ctgagtcaac ccagtacttt tagtaccocg 240
tcactatgtg aataaaggca gctagaaaat ggactcaatt ctgcaagcct tcatggcaac 300
agcccatatt aagacttcta gaacaagtta aaaaaaaatc ttccatttcc atccatgcat 360
gggaaaaggg ctttagtata gtttaggatg gatgtgtgta taataataaa atgataagat 420
atgcatagtg ggggaataaa gcctcagagt ccttccagta tgggggaatcc attgtatct 479
```

<210> 285

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27, 83, 90, 93, 96, 184, 207, 227, 232, 293, 306, 307, 328, 331, 339, 343, 347, 349, 350, 370, 371, 382, 383, 414, 418, 434

<223> n = A,T,C or G

<400> 285

```
tttttttttt tttttttttt tcaatanaaa tgccataatt tattccattg tataaaaaag 60
tcaccccttat gtaacaaaat gtnttcttan aanaanaaat atattatttc aggtcataaa 120
taatcagcaa acatacaact gttggcaact aaaaaaaaaac ccaacactgg tattttccat 180
cagngctgaa aacaaacctg cttaaanata tatttacagg gatagtnacg tntcaaaaaa 240
caaaaattga ggtatttttg ttcttctagg agtagacaat gacatttttg gangggcaga 300
cccctnnccc aaaaaataaa ataagggnat nttcttcant atnngaanann gggggcgccc 360
cggggaaaaa naaaccttgg gnnngggggt tggcccaagc ccttgaaaaa aaantttntt 420
tccccaaaaa aacng 435
```

<210> 286

<211> 301

<212> DNA

<213> Homo sapiens

<400> 286

```
cctggtttct ggtggcctct atgaatccca tgtagggtgc agaccgtact ccatccctcc 60
ctgtgagcac cacgtcaacg gctcccggcc cccatgcacg ggggaggag atacccccaa 120
gtgtagcaag atctgtgagc ctggctacag cccgacctac aaacaggaca agcactacgg 180
atacaattcc tacagcgtct ccaatagcga gaaggacatc atggccgaga tctacaaaaa 240
cgcccccggt gagggagctt tctctgtgta ttcggacttc ctgctctaca agtcaggagt 300
g 301
```

<210> 287

<211> 432

<212> DNA

<213> Homo sapiens

<400> 287

```
tccagcttgt tgccagcatg agaaccgcca ttgatgacat tgaacgocgg gactggcagg 60
```

10076622.021302

```

atgacttcag agttgccagc caagtcagcg atgtggcggg acaggggggac ccccttctca 120
acggcaccag ctttgccagc ggcaagggac acccccagaa tggcggttcgc accaaactta 180
gatttatatt ctgttccatc catctcgatc atcagtttgt caatcttctc ttgttctgtg 240
acgttcagtt tcttgctaac cagggcaggc gcaatagttt tattgatgtg ctcaacagcc 300
tttgagacac ccttccccat atagcgagtc ttatcattgt cccggagctc tagggcctca 360
tagataccag ttgaagcacc actgggcaca gcagctctga agagaccttt tgagggtgaag 420
agatcaacct ca 432

```

```

<210> 288
<211> 326
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 254
<223> n = A,T,C or G

```

```

<400> 288
tctgggtcaa gtcaaagtcc tggctcctctt ctccgcctcc ttcttcatca tagtaataaa 60
cgttgtcccg ggtgtcatcc tctgggggca gtaagggctc tttgaccacc gctctcctcc 120
gaagaaacag caagagcagc agaatcagaa ttagcaaagc aagaattcct ccaagaatcc 180
ccagaatggc aggaatttgc aatcctgctt cgacaggctg tgcccttcta cagacgccgg 240
cggccccctt acantcacac acgtgacct ctaaggtggg cacttgggtct ttattctggt 300
tatccatgag cttgagattg attttg 326

```

```

<210> 289
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 289
gtcccgggtgt ggctgtgccg ttggctcctgt gcgggtcactt agccaagatg cctgaggaaa 60
cccagaccca agaccaaccg atggaggagg aggagggtga gacgttcgcc tttcaggcag 120
aaattgcccc gttgatgtca ttgatcatca atactttcta ctgaacaaa gagatctttc 180
tgagagagct catttcaaat tcatcagatg cattggacaa aatccggtat gaaagcttga 240
cagatcccag taaattagac tctgggaaag agctgcataat taaccttata ccgaacaaac 300
aagatcgaac tctcactatt gtggatactg gaattggaat gaccaaggct gacttgatca 360
ataaccttgg tactatcgcc aagtctggga ccaaagcggt catggaagct ttgcaggctg 420
gtgcagatat ctctatgatt ggacctcggc c 451

```

```

<210> 290
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 421
<223> n = A,T,C or G

```

```

<400> 290
tttttttttt tcaaaacagt atatttttatt ttacaatagc aaccaactcc ccagtttgtt 60
tcaattgtga catctagatg gcttaagatt actttctggt ggtcaccat gctgaacaat 120

```

```

atttttcaat cttccaaaca gcaaagactc aaaagagatt ctgcatttca catcagttca 180
caagttcaag agtccttccat ttatccttagc ttttgggaata aattatcttt gaggtagaag 240
gacaatgacg aagccactta attccttgtg tctgcataaa agcagattta ttcatacaca 300
cttcatttat gtgaataaag cagatgatga taaaatgttc tcttattctt gtttaatcag 360
tagtggtagt gatgccagaa acttgtaaat gcacttcaaa ccaattgtgg ctcaagtgt 420
ngtggttccc caaggctggg accaatgaga ctgggggttg ggaattagtt ggtcatcatc 480
cctcctgctg ccca 494

```

```

<210> 291
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<400> 291
tcgcgtgctt aacatgaaaa caaactttgt gctgtttggt tcattgtatg cattgatgga 60
gtcttgtctc tcatcatggg gtgtctgacc atccaacctg cagtactcat aatttctcca 120
catgcaataa tcttccaaaa tgtccaatac ccttgtcatt tgactgaaga ttagtactcg 180
tgaaccttgt tcttttaact tagggagcag cttgtctaaa accaccattt tgccactggt 240
ggttactaga tgcataatctg ttgtataagg tggaccagggt tctgctccat caaagagata 300
tggatgatta caacattttc tcaactgcac taggatgttc aataacctca ttttgtccat 360
cttgcttctg gagttgagta tatctatata cttcattaat atccgagtat accattccct 420
ttgcattttg ctgaggccca catagatttt tacttccctt tttggaggga aactcttttc 480
aacatcagcc ttaattcgac gaaggaggaa tggacgcaaa accatatgaa gcctc 535

```

```

<210> 292
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 4, 348
<223> n = A,T,C or G

```

```

<400> 292
tacnagcccg tgctgatcga gatcctggtg gaggtgatgg atccttcctt cgtgtgcttg 60
aaaattggag cctgccccctc ggcccataag cccttgtttg gaactgagaa gtgtatatgg 120
ggcccaagct actggtgcca gaacacagag acagcagccc agtgcaatgc tgtcgagcat 180
tgcaaacgcc atgtgtggaa ctaggaggag gaatatcca tcttggcaga aaccacagca 240
ttggtttttt tctacttgtg tgtctggggg aatgaacgca cagatctgtt tgactttgtt 300
ataaaaatag ggctccccca cctcccccat ttttgtgtcc tttattgnag cattgctgtc 360
tgcaaggagg ccccta 376

```

```

<210> 293
<211> 320
<212> DNA
<213> Homo sapiens

```

```

<400> 293
tcggctgctt cctggtcttg cggggatggg tttgcttttg aaatcctcta ggaggctcct 60
cctcgatgg cctgcagtc ggcagcagcc ccgagttgtt tcctcgctga tcgatttctt 120
tcctccaggt agagttttct ttgcttatgt tgaattccat tgccctcttt ctcatacag 180
aagtgatgtt ggaatcgttt cttttgtttg tctgatttat gggtttttta agtataaaca 240
aaagtttttt attagcattc tgaaagaagg aaagtaaaat gtacaagttt aataaaaagg 300

```

ggccttcccc tttagaatag

320

<210> 294

<211> 359

<212> DNA

<213> Homo sapiens

<400> 294

```
ctgtcataaa ctggtctgga gtttctgacg actccttggt caccaaatgc accatttcct 60
gagacttgct ggcctctccg ttgagtcac ttggctttct gtcctccaca gctccattgc 120
cactgttgat cactagcttt ttcttctgcc cacaccttct tcgactgttg actgcaatgc 180
aaactgcaag aatcaaagcc aaggccaaga gggatgccaa gatgatcagc cattctggaa 240
tttgggggtg ccttatagga ccagagggtg tgtttgctcc accttcttga ctcccatgtg 300
agtgtccatc tgattcagat ccatgagtggt tatgggaccc cccactgggg tggaatgtg 359
```

<210> 295

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 558

<223> n = A,T,C or G

<400> 295

```
cctgagttgg gctgactgcc agagacagac ccctctgggt ctcggtgaac cagccaggca 60
tttacctcag tgggtggcac ctggaacctg tccagggccc tcacctgact gaggagccgc 120
cgggcagtgga agtaattgtc caggtctatg ctcttggggg ggataccata gccatccaag 180
gtattcctca gggttgaggaa ctgggtctga gtataggcag aactgggccc caggatgatc 240
tcccggagtg ggggaagctg tgaggtcagg taagtatcca cgtccacccg taccccaatc 300
aaactcagca gaatggtgaa ctggagaagt ccttccgtta agtatttctt cagagaaaagc 360
attgctgaag gaccagaatg tttatgcttt ttgggtttta aaatcttcca aaagacaaat 420
caaggccact gctctgccgc tccagccagc aggttacctt cctcagtgtc aaaccccgtg 480
ccccaccctg gcagaacaca agggatgagc tccttgacgg ccccagagga aagcacaccc 540
tgtggagcca aggccaanga cacactccag accacattca cttt 584
```

<210> 296

<211> 287

<212> DNA

<213> Homo sapiens

<400> 296

```
ccttatcatt cattcttagc tcttaattgt tcattttgag ctgaaatgct gcattttta 60
tttaacaaaa acatgtctcc tatcctgggt ttgtagcct tcctccacat cttttctaaa 120
caagatttta aagacatgta ggtgtttgtt catctgtaac tctaaaagat cttttttaaa 180
ttcagtccta agaaagagga gtgcttgctc cctaagagtg tttaatggca aggcagccct 240
gtctgaagga cacttcctgc ctaagggaga gtgggtatttg cagacta 287
```

<210> 297

<211> 457

<212> DNA

<213> Homo sapiens

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<400> 297

```

ccaattgaaa caaacagttc tgagaccggt cttccaccac tgattaagag tgggggtggca 60
ggtattaggg ataataattca tttagccttc tgagctttct gggcagactt ggtgaccttg 120
ccagctccag cagccttctt gtccactgct ttgatgacac ccaccgcaac tgtctgtctc 180
atatcacgaa cagcaaagcg acccaaaggt ggatagtctg agaagctctc aacacacatg 240
ggcttgccag gaaccatata aacaatggca gcatcaccag acttcaagaa tttagggcca 300
tcttccagct ttttaccaga acggcgatca atcttttctt tcagctcagc aaacttgcat 360
gcaatgtgag ccgtgtggca atccaatata ggggcatagc cggcgcttat ttggcctgga 420
tggttcagga taatcacctg agcagtgaag ccagacc 457

```

<210> 298

<211> 469

<212> DNA

<213> Homo sapiens

<400> 298

```

tctttgactt tctttgtcta cctcctcttg agatctcaaa ttctccaggt tccatgctcc 60
cagagatctc aatgattcct gattctcttc ttccaggagt ctgaatgtct cttgggtcac 120
ttccacagac tccagtgggt cttgaatttc cttttctaga ggattcattg cccctgatt 180
tatttcttct ggagtccaca gtggtgcttg agtttctgga gatttcagtg tttccagggt 240
ctcttgtccc gcagacttca gtgattctag gatctctggt tctaaagatt ttactgcctc 300
tatgctctct tctttgagtg actttaagaa ctcttgattc tcattttcaa gaggtctagc 360
tatctcctgg tcaagagact tcagtgggtc tagatccact ttttctgggg gtcttaatgt 420
catctgatcc tgttccccta gagacctccg tcgctgttga gtctctttt 469

```

<210> 299

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 37, 82, 144

<223> n = A,T,C or G

<400> 299

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tctgtggaga ggatgaggtt gagggaggtg gggatatntcg ctgctctgac cttaggtaga 60
gtcctccaca gaagcatcaa antggactgg cacatatgga ctcccttcac aggccacaat 120
gatgtgtctc tcttccgggc tggncgggta tgcacagttg gggtta 165

```

<210> 300

<211> 506

<212> DNA

<213> Homo sapiens

<400> 300

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tctgaggaaa gtttgggctt attagtattt gctccagcga acctccaagt tttctccatt 60
gcggaacaag taactaccag ctcttgggtc cagtgggttc cctccactca gaagttccca 120
gtaggttctg tcattattgt tggcacatag gccctgaata caggtgatat agggcccca 180
tgagcgctcc tccattgtga aaccaaatat agtatcattc attttctggg ctttctccat 240
cacactgagg aagacagaac catttagcac agtgacattg gtgaaatatg tttcattgat 300
tctcacagag taattgacgg agatatatga ttgtgagtca ggaggtgtca cagttatagg 360
ctcatcagcg gagatgttga agttacctga agcagagacg caagaagagt ctttgtaat 420
atccaagaag gtctttccca tcagggcagg taagacctgg gctgcagcgt ttggattgct 480

```

gaatgctcct tgagaaatth ccgtga

506

<210> 301

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 221, 223, 252, 275, 280

<223> n = A,T,C or G

<400> 301

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tcctaaggca gagcccccat cacctcaggc ttctcagttc ccttagccgt cttactcaac 60
tgcccccttc ctctccctca gaatttgtgt ttgctgcctc tatcttgttt tttgtttttt 120
cttctggggg gggctctagaa cagtgcctgg cacatagtag gcgctcaata aatacttggt 180
tggtgaatgt ctctctctct tttccactct gggaaacctt ngnttctgcc attctgggtg 240
accctgtatt tntttctggg gccattcca tttgnccagn taatacttcc tcttaaaaat 300
ctcc 304
```

<210> 302

<211> 492

<212> DNA

<213> Homo sapiens

<400> 302

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ttttcagtaa gcaacttttc catgctctta atgtattcct ttttagtagg aatccggaag 60
tattagattg aatggaaaag cacttgccat ctctgtctag gggtcacaaa ttgaaatggc 120
tcctgtatca catabggagg tcttggtgat ctgtggcaac agggagtttc cttattcact 180
ctttatttgc tgctgtttta gttgccaaac tccccccca ataaaaattc acttacacct 240
cctgcctttg tagttctggg attcacttta ctatgtgata gaagtagcat gttgctgcca 300
gaatacaagc attgcttttg gcaaattaaa gtgcatgtca tttcttaata cactagaaag 360
gggaaataaa ttaaagtaca caagtccaag tctaaaactt tagtactttt ccatgcagat 420
ttgtgcacat gtgagagggt gtccagtttg tctagtgtat gttattttaga gaggttggacc 480
actattgtgt gt 492
```

<210> 303

<211> 470

<212> DNA

<213> Homo sapiens

<400> 303

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tctggggcag caggtactcc ctacggcact agtctacagg gggaaggacg ctctgtgctg 60
gcagcgggtg ctacatggc ctgtctgcac tgtaaccaca ggctgggatg tagccaggac 120
ttggtctcct tggaagacag gtctgatgtt tggccaatcc agtccttcag accctgcctg 180
aaacttgtat cttacgtgaa cttaaagaat aaaatgcatt tctaccccca tctcgccccc 240
aggactggca cgacaggccc acggcagatt agatcttttc ccagtactga tcggtgcgtg 300
gaattccagc caccacttct gattcgattc cacagtgate ctgtcctctg agtattttaa 360
agaagccatt gtcacccag tcagtgttcc aggagttggc aaccagccag tagggtgtgc 420
cattctccac tccccagccc aggatgcgga tggcatggac ctcggccgcg 470
```

<210> 304

<211> 79

<212> DNA

100661.03307

<213> Homo sapiens

<400> 304

tgtccattg ttaactcagc ctcaaattc aactgtcagg ccctacaaag aaaatggaga 60
gcctcttctg gtggatgcg 79

<210> 305

<211> 476

<212> DNA

<213> Homo sapiens

<400> 305

tcactgagcc accctacagc cagaagagat atgaggaaat tgtaaggaa gtcagcactt 60
acattaagaa aattggctac aaccccgaca cagtagcatt tgtgccaatt tctggttga 120
atggtgacaa catgctggag ccaagtgtc acgtaagtgg ctttcaagac cattgttaa 180
aagctctggg aatggcgatt tcatgcttac acaaattggc atgcttgtgt ttcagatgcc 240
ttggttcaag ggatggaaag tcaccgtaaa ggatggcaat gccagtggaa ccacgctgct 300
tgaggctctg gactgcatcc taccaccaac tcgtccaact gacaagccct tgcgcctgcc 360
tctccaggat gtctacaaa ttggtggtaa gttggctgta acaaagttg aatttgagtt 420
gatagagtac tgtctgcctt cataggtatt tagtatgctg taaatatttt taggta 476

<210> 306

<211> 404

<212> DNA

<213> Homo sapiens

<400> 306

tctgtctcgg agctcagggc gcagccagca cacacaggag cccacaggac agccacgtct 60
tcacagaaac tacagaagtc aggacccagg cgaggacctc aggaacaagt gccccctgca 120
gacagagaga cgcagtagca acagcttctg aacaactaca taataatgcg gggagaatcc 180
tgaagaccac tgcattccac aagcactgac aaccacttca ggattttatt tctccactc 240
taacccccag atccatttat gagaagttag tgaggatggc aggggcatgg aggggtgaagg 300
gacagcaagg atggtctgag ggccctggaaa caatagaaaa tcttcgtcct ttagcatatc 360
ctggactaga aaacaagagt tggagaagag gggggttgat acta 404

<210> 307

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 255, 257

<223> n = A,T,C or G

<400> 307

tcctgcctan acatctgtga gggcctcaag ggctgctgcc tcgactttct ccctagctaa 60
gtccacccgt ccaggagacac agccagggca ctgctctgtg ctgacttcca ctgcagccaa 120
gggtcaaaat gaagcatctg cggaggccag gactccttgg catcggacac agtcagggga 180
aaagccaccc tgactctgca ggacagaggg tctagggctca tttggcagga gaacactggt 240
gtgccaaggg aagcnancat 260

<210> 308

<211> 449

10076622.021302

<212> DNA
<213> Homo sapiens

<400> 308
tctgtgctcc cgactcctcc atctcaggta ccaccgactg cactgggcgg ggccctctgg 60
ggggaaaggc tccacggggc agggatacat ctcgaggcca gtcacccctt ggaggcagcc 120
caatcaggtc aaagattttg cccaactggt cggcttcaga gtttccacag aagagaggct 180
ttcgacgaaa catctctgca aagatacagc caacactcca catgtccaca ggtgttgcac 240
atgtggactg cagaagaact tcgggagctc ggtaccagag tgtaacaacc ttgatcgttt 300
cggctggcaa gcctgggtggg ggtgccttgt ccagatatgt ccttaggtcc tggctctacat 360
gctcaaacac caggggttacc ttgatctccc ggtcagttcg ggatgtggca cagacgtcca 420
tcagccggac aacattggga tgctcaaaa 449

<210> 309
<211> 411
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 384
<223> n = A,T,C or G

<400> 309
ctgtggaac ctgggggtgcc gggtaaattg agaactccag cttggatttc ttgccataat 60
caactgagag acgttccatg agcagggagg tgaaccacaga accagttccc ccaccaaagc 120
tgtggaacac caagaagccc tgaagaccgg tgcactggtc agccagcttg cgaattcggg 180
ccaacacaag gtcaatgatc tccttgccaa tgggtgtagtg ccctcgggca tagttattgg 240
cagcatcttc cttgcctgtg atgagctgct caggggtggaa gagctggcgg taggtgccag 300
tgcgaaactt atcaatgact gtgggttcca agtctacaaa cacagcccgg ggcacgtgct 360
tgccagcgcc cgtctcactt gaanaagggt gtttgaagga agtcatctcc t 411

<210> 310
<211> 320
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 250
<223> n = A,T,C or G

<400> 310
tcctcgcca gcttgactcg attagtcctc ataaggtaag caaggcagat ggtggctgac 60
cgggaaatgc ctgcctggca gtggacaaac acccttcctc cagcattctt gatggagtct 120
atgaagtcaa tggcctcggt gaaccaggag ctgatgtctg ccttggtggtt gtcctccaca 180
gggatgctct tgtactggta gtgacctca aaatgggttg gacaattggc tgagacgttg 240
atcaaggcan ttatgcccac ggcatccagc atgtccttgc gggaagcgtg atacgcactg 300
cccaggtaca gaaaggcag 320

<210> 311
<211> 539
<212> DNA
<213> Homo sapiens

10076622292007

<400> 311
tctggcccat gaagctgaag ttgggagaga tgatgcttcg cctctgcttc acaaactcaa 60
aggcctcgtc cagcttgact cgattagtcc tcataaggta agcaaggcag atgggtggctg 120
accgggaaat gcctgcctgg cagtggacaa acacccttcc tccagcattc ttgatggagt 180
ctatgaagtc aatggcctcg ttgaaccagg agctgatgtc tgccttgtgg ttgtcctcca 240
cagggatgct cttgtactgg tagtgaccct caaaatgggt gggacaattg gctgagacgt 300
tgatcaaggc agttatgccc aaggcatcca gcatgtcctt gcgggaagcg tgatacgcac 360
tgcccaggta cagaaagggc aggatttcca ccgggccacc ctgaaatcca gaaatatcca 420
acattcatca agcttgctca aagccaaggc cagtgcccat acccacaaa actttctgct 480
ggaaaagtca atttcagata ccgagtgaac tcagttctgt tgctggagga taaataaat 539

<210> 312
<211> 475
<212> DNA
<213> Homo sapiens

<400> 312
tcaaggatct tcctaaagcc accatgtgag aggattcggg cgagagtctg agctgtatgg 60
cagaccatgt cctgctgttc tagggtcatt actgtgtgta ctctaaagtt gccactctca 120
caggggtcag tgataccac tgaacctggc aggaacagtc ctgcagccag aatctgcaag 180
cagcgcctgt atgcaacgtt tagggccaaa ggctgtctgg tggggttgtt catcacagca 240
taatggccta gtaggtcaag gatccagggt gtgaggggt caaagccagg aaaacgaatc 300
ctcaagtctt tcagtagtct gatgagaact ttaactgtgg actgagaagc attttctctg 360
aaccagcggg catgtcggat ggctgctaag gcactctgca atactttgat atccaaatgg 420
agttctggat ccagttttcg aagattgggt ggcactgttg taatgagaat cttca 475

<210> 313
<211> 456
<212> DNA
<213> Homo sapiens

<400> 313
tccacttaaa ggggtgcctct gccaaactggt ggaatcatcg ccacttccag caccacgcca 60
agcctaacat cttccacaag gatcccgatg tgaacatgct gcacgtgttt gttctgggcg 120
aatggcagcc catcgagtac ggcaagaaga agctgaaata cctgcctac aatcaccagc 180
acgaatactt cttcctgatt ggcccgccgc tgctcatccc catgtatttc cagtaaccaga 240
tcatcatgac catgatcgtc cataagaact ggggtggacct ggccctgggccc gtcagctact 300
acatccggtt cttcatcacc tacatccctt tctacggcat cctgggagcc ctccctttcc 360
tcaacttcat caggttcctg gagagccact ggtttgtgtg ggtcacacag atgaatcaca 420
tcgtcatgga gattgaccag gaggacctcg gcccg 456

<210> 314
<211> 477
<212> DNA
<213> Homo sapiens

<400> 314
tgcgtgggct tctggaagcc tggatctgga atcattcacc agattattct ggaaaactat 60
gcgtaccctg gtgttcttct gattggcact gactcccaca cccccaatgg tggcggcctt 120
gggggcatct gcattggagt tgggggtgccc gatgctgtgg atgtcatggc tgggatcccc 180
tgggagctga agtgcccca ggtgattggc gtgaagctga cgggctctct ctccggttg 240
tcctcaccca aagatgtgat cctgaagggt gcaggcatcc tcacggtgaa aggtggcaca 300
ggtgcaatcg tggaatacca cgggcctggt gtagactcca tctcctgcac tggcatggcg 360

acaatctgca acatgggtgc agaaattggg gccaccactt ccgtgttccc ttacaaccac 420
 aggatgaaga agtatctgag caagaccggc cgggaagaca ttgccaatct agctgat 477

<210> 315
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35
 <223> n = A,T,C or G

<400> 315
 cagggtactgg atgtcagggtc tgcgaaactt cttanatttt gacctcagtc cataaaccac 60
 actatcacct cggccatcat atgtgtctac tgtggggaca actggagtga aaacttcggt 120
 tgctgcagggt ccgtgggaaa atcagtgacc agttcatcag attcatcaga atgggtgagac 180
 tcatcagact ggtgagaatc atcagtgatc tctacatcat cagagtcggt cgagtcaatg 240
 g 241

<210> 316
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 4, 32, 39, 68, 77, 82, 94, 166, 172, 195, 196
 <223> n = A,T,C or G

<400> 316
 ntntgtgat agtgtggttt atggactgag gncaaaatnt aagaagtttc gcagacctga 60
 catccaancc tgcccngcgc gncgctcgaa aggnccaatt ctgcagatat ccatcacact 120
 ggcggccgct cgagcatgca tctagagggc ccaattcgcc ctatantgag tnatattaca 180
 attcactggc cgtcnnttta caacgtcgtg actgggaaaa ccctggcgtt acccaactta 240
 a 241

<210> 317
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 25, 135, 154, 193
 <223> n = A,T,C or G

<400> 317
 aggtaccctg ctcanacagcc tgggngcctg ggttgtctcc ttgtccatcc actggtccat 60
 tctgtctctgc atttttttgt tcctcttttg gaggttccac ttggggtttg ggctttgaaa 120
 ttatagggct acaantacct cggccgaaac cacnctaagg gcgaattctg cagatatcca 180
 tcacactggc gngcgtcga gcatgcatct agagggccca attcgcccta tagtgagtcg 240
 t 241

1007632.021007

<210> 318
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 5, 10, 11, 24, 28, 31, 34, 40, 42, 47, 53, 74, 80, 96,
 101, 127, 129, 136, 138, 205, 241
 <223> n = A,T,C or G

<400> 318
 cgngnacaan ntacattgat gganggtntg nggntctgan tntttantta cantggagca 60
 ttaatatattt cttnaacgtn cctcaccttc ctgaantaaa nactctgggt tgtagcgctc 120
 tgtgctnana accacntnaa ctttacatcc ctcttttggga ttaatccact gcgcggccac 180
 ctctgccgcg accacgctaa gggcnaattc tgcagatac catcacactg gcggccgctc 240
 n 241

<210> 319
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24, 36, 39
 <223> n = A,T,C or G

<400> 319
 caggctactga tcggtgcgtg gaantccagc caccanttnt gattcgattc cacagtgatc 60
 ctgtcctctg agtatatttaa agaagccatt gtcacccag tcagtgttcc aggagttggc 120
 aaccagccag tagggtgtgc cattctccac tccccagccc aggatgcgga tggcatggcc 180
 accatcatc tctccggtga cgtgttggtta cctcggccgc gaccacgcta agggcgaatt 240
 c 241

<210> 320
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27, 215, 216, 217, 220, 222, 235
 <223> n = A,T,C or G

<400> 320
 ggcaggtagc aacagagctt agtaatntct aaaaagaaaa aatgatcttt ttccgacttc 60
 taaacaagtg actatactag cataaatcat tctagtaaaa cagctaagg atagacattc 120
 taataatttg ggaaaaccta tgattacaag tgaaaactca gaaatgcaa gatgttggtt 180
 ttttgtttct cagtctgctt tagcttttaa ctctnnnaan cncatgcaca cttgnaactc 240
 t 241

<210> 321
 <211> 241

1006622200

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> 2, 25, 26, 228
<223> n = A,T,C or G

<400> 321
angtaccaac agagcttagt aattnntaaa aagaaaaaat gatctttttc cgactttctaa 60
acaagtgact atactagcat aaatcattct agtaaaacag ctaagggtata gacatttctaa 120
taatttggga aaacctatga ttacaagtga aaactcagaa atgcaaagat gttgggtttt 180
tgtttctcag tctgcttttag cttttaactc tggaagcgca tgcacacntg aactctgctc 240
a 241

<210> 322
<211> 241
<212> DNA
<213> Homo sapiens

<400> 322
ggtaccaaca gagcttagta atttctaaaa agaaaaaatg atctttttcc gactttctaaa 60
caagtgacta tactagcata aatcattctt ctagtaaaac agctaaggta tagacattct 120
aataatttgg gaaaacctat gattacaagt aaaaactcag aaatgcaaag atgttgggtt 180
tttgtttctc agtctgcttt agcttttaac tctggaagcg catgcacact gaactctgct 240
c 241

<210> 323
<211> 241
<212> DNA
<213> Homo sapiens

<400> 323
cgaggtactg tcgtatcctc agccttggtc tatttcttta ttttagcttt acagagatta 60
ggtctcaagt tatgagaatc tccatggctt tcaggggcta aacttttctg ccattctttt 120
gctcttaccg ggctcagaag gacatgtcag gtgggatacg tgtttctctt tcagagctga 180
agaaagggtc tgagctgcgg aatcagtaga gaaagccttg gtctcagtga ctccctgggt 240
t 241

<210> 324
<211> 241
<212> DNA
<213> Homo sapiens

<400> 324
agggtactgt gtatcctcag ccttggttcta tttctttatt ttagctttac agagattagg 60
tctcaagtta tgagaatctc catggctttc aggggctaaa cttttctgcc attcttttgc 120
tcttaccggg ctccagaagga catgtcaggt gggatacgtg tttctctttc agagctgaag 180
aaagggtctg agctgcggaa tcagtagaga aagccttggc ctcagtgact ccttggtctt 240
c 241

<210> 325
<211> 241
<212> DNA

10076630.2292001

<213> Homo sapiens

<400> 325

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ggcagggtaca tttgttttgc ccagccatca ctcttttttg tgaggagcct aaatacattc 60
ttcctgggggt ccagagtccc cattcaaggc agtcaagtta agacactaac ttggcccttt 120
cctgatggaa atatttcctc catagcagaa gttgtgttct gacaagactg agagagttac 180
atgttgggaa aaaaaaagaa gcattaactt agtagaactg aaccaggagc attaagttct 240
g 241
```

<210> 326

<211> 241

<212> DNA

<213> Homo sapiens

<400> 326

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gcagggtacat ttgttttggc cagccatcac tcttttttgg gaggagccta aatacattct 60
tcctgggggtc cagagtcccc attcaaggca gtcaagttaa gacactaact tggccctttc 120
ctgatggaaa tatttcctcc atagcagaag ttgtgttctg acaagactga gagagttaca 180
tggtgggaaa aaaaagaagc attaacttag tagaactgat ccaggagcat taagttctga 240
a 241
```

<210> 327

<211> 241

<212> DNA

<213> Homo sapiens

<400> 327

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ggtaccagac caagtgaatg cgacagggaa ttatttcctg tgttgataat tcatgaagta 60
gaacagtata atcaaaatca attgtatcat cattagtttt ccaactgcctc acactagtga 120
gctgtgccaa gtagtagtgt gacacctgtg ttgtcatttc ccacatcacg taagagcttc 180
caaggaaagc caaatccag atgagttctc gagagggatc aatatgtcca tgattatcag 240
g 241
```

<210> 328

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 19, 66, 232, 240

<223> n = A,T,C or G

<400> 328

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ggtacnagac caaatgaang ccacagggaa ttatttcctg tgttgataat tcatgaagta 60
gaacantata atcaaaatca attgtatcat cattagtttt ccaactgcctc acactagtga 120
gctgtgccaa gtagtagtgt gacacctgtg ttgtcatttc ccacatcacg taagagcttc 180
caaggaaagc caaatccag atgagttctc gagagggatc aatatgtcca tnatcatcan 240
g 241
```

<210> 329

<211> 241

<212> DNA

<213> Homo sapiens

100662.0307

<220>
 <221> misc_feature
 <222> 33, 61, 220, 228, 229, 240, 241
 <223> n = A,T,C or G

<400> 329
 ttcaggtcga gttggctgca gatttgtggt gcnttctgag ccgtctgtcc tgcgccaaaa 60
 ngcttcaaag tattattaaa aacatatgga tccccatgaa gccctactac accaaagttt 120
 accaggagat ttggatagga atggggctga tgggcttcat cgtttataaa atccgggctg 180
 ctgataagaa gtaaggcttt gaaagcttca gcgcctgctn ctggtcanna ctaaccatan 240
 n 241

<210> 330
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 330
 ttttgtgcag atttgtggtg cgttctgagc cgtctgtcct gcgccaaagat gcttcaaagt 60
 attattaaaa acatatggat ccccatgaag cctactaca ccaaagttaa ccaggagatt 120
 tggataggaa tggggctgat gggcttcatc gtttataaaa tccgggctgc tgataaaaga 180
 agtaaggctt tgaaaagcttc agcgcctgct cctggtcac actaaccaga ttacttggga 240
 g 241

<210> 331
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 9, 41, 60, 61, 119, 124, 132, 139, 141, 153, 168
 <223> n = A,T,C or G

<400> 331
 nttttaggna ctttgggctc cagacttcac tgggtcttagg nattgaaacc atcacctggn 60
 ntgcattcct catgactgag gttaacttaa aacaaaaatg gtaggaaagc tttcctatnc 120
 ttcnggtaag anacaaatnt nctttaaaaa aangtggaag gcatgacnta cgtagagaact 180
 gcacaaactg gccactgaca aaaatgaccc ccatttgtgt gacttcattg agacacatta 240
 c 241

<210> 332
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 332
 tgtgaggaga gggaacatgc tgagaaactg atgaagctgc agaaccaacg aggtggccga 60
 atcttccttc aggatatcaa gaaaccagac tgtgatgact gggagagcgg gctgaatgca 120
 atggagtgtg cattacattt ggaaaaaat gtgaatcagt cactactgga actgcacaaa 180
 ctggccactg acaaaaaatga cccccatttg tgtgacttca ttgagacaca ttacctgaat 240
 g 241

20060229

<210> 333
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 44, 52, 60, 98, 104, 108, 124, 126, 190, 198, 206, 214
 <223> n = A,T,C or G

<400> 333
 cagggtacaag cttttttttt tttttttttt tttttttttt ttgnaaatac tntttattgn 60
 aaatattcta tcctaaattc catatagcca attaatntt acanaatntt ttgttaattt 120
 ttgngngtat aaatttttaca aaaataaagg gtatgtttgt tgcacacaac ttacaaataa 180
 taataaaactn tttattgnaa atattnttta ttgnaaatat tctttatcct aaattccata 240
 t 241

<210> 334
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 16, 22, 24, 49, 158, 159, 237
 <223> n = A,T,C or G

<400> 334
 tacctgctgn aggggntgaa gncntctctg ctgccccagg catctgcanc ccctgctgct 60
 gggtctgccc ctgctgcagc agaggagaag aaagatgaga agaaggagga gtctgaagag 120
 tcagatgatg acatgggatt tggccttttt gattaaannc ctgctcccct gcaaataaag 180
 ccttttttaca caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcttgtac ctgcccnggc 240
 g 241

<210> 335
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 335
 ctatgtgctg ggatgactat ggagacccaa atgtctcana atgtatgtcc cagaaacctg 60
 tggtctgctt aaccattgac agttttgctg ctgctggctt ctgcagacag tcaagctgca 120
 gctcccccaa aggtctgtgt gaaacttgag cccccgtgga tcaacgtgct ccaggaggac 180
 tctgtgactc tgacatgcc a gggggctcgc agccctgaga gcgactccat tcagtgggtc 240
 c 241

<210> 336
 <211> 241
 <212> DNA

100766-0300

<213> Homo sapiens

<400> 336

```
taccaaccta tgcagccaag caacctcagc agttcccatc aaggccacct ccaccacaac 60
cgaaagtatc atctcagga aacttaattc ctgcccgctc tgctcctgca cctcctttat 120
atagttccct cacttgattt ttttaacctt ctttttgcaa atgtcttcag ggaactgagc 180
taatactttt ttttttcttg atgttttctt gaaaagcctt tctgttgcaa ctatgaatga 240
a 241
```

<210> 337

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 47, 56, 69, 228

<223> n = A,T,C or G

<400> 337

```
ggtactgtat gtagctgcac tacaacagat tcttaccgtc tccacanagg tcatanattg 60
taaatggtna atactgactt tttttttatt cccttgactc aagacagcta acttcatttt 120
cagaactgtt ttaaaccctt gtgtgctggt ttataaaata atgtgtgtaa tccttggtgc 180
tttcttgata ccagactgtt tcccgtggtt ggtagaata tattttgntt tgatgcttat 240
a 241
```

<210> 338

<211> 241

<212> DNA

<213> Homo sapiens

<400> 338

```
aggtacaggt gtgcgctgag ccgagtttac acggaagga taaagcccat ttagtttctt 60
ctcaaattga gttttccact ttcttttgaa gtagacagca ttcaccagga tcatcctggt 120
atccccatct acagaacctt caggtaacaa gtttgggatt ttgcctttgg tttgagtctt 180
gacccaggaa ttaatctttt ttctagcttc ttctgcacat tctaggaagt ctactgcctg 240
g 241
```

<210> 339

<211> 241

<212> DNA

<213> Homo sapiens

<400> 339

```
taccgacggc tcctggaggg agagagtga gggacacggg aagaatcaaa gtcgagcatg 60
aaagtgtctg caactccaaa gatcaaggcc ataaccagc agaccatcaa cggaagatta 120
gttctttgtc aagtgaatga aatccaaaag cacgcatgag accaatgaaa gtttccgcct 180
gttgtaaaat ctattttccc ccaaggaaa gtccttgaca gacaccagt agtgagttct 240
a 241
```

<210> 340

<211> 241

<212> DNA

<213> Homo sapiens

1007663.031307

<400> 340

```

gtagccctca cacacacatg ccgtaacag gatttatcac aagacacgcc tgcattgtaga 60
ccagacacag ggcgtatgga aagcacgtcc tcaagactgt agtattccag atgagctgca 120
gatgcttacc taccacggcc gtctccacca gaaaaccatc gccaaactct gcgatcagct 180
tgtgacttac aaaccttggt taaaagctgc ttacatggac ttctgtcctt taaaagcttc 240
c 241

```

<210> 341

<211> 241

<212> DNA

<213> Homo sapiens

<400> 341

```

gtaccgccta ctttcgtctc atgtctccga acttcttgtt gatggccgtt ccaacgttgc 60
tgaaagctgc agttgccttt tgccctgcgt gactcagggt ttcatgtgtt ttctttagg 120
cagtggtagt ctgcatgtca tgccagcttt tgctgaagtt ctgttttaac tcattcatca 180
ggttcatgcc gagttttggt ttatctcaac tagatgcctt tctttcgtctg acaaaacttg 240
t 241

```

<210> 342

<211> 241

<212> DNA

<213> Homo sapiens

<400> 342

```

gtacattggg gctataaata taaatgctac ttatgaagca tgaaattaag cttctttttt 60
cttcaagttt tttctcttgt ctagcaatct gttaggcttc tgaaccaaga ccaaagtgtt 120
acgttcctct gctgcatacc aacgttactc caaacaataa aaatctatca tttctgctct 180
gtgctgagga atggaaaatg aaacccccac cccctgaccc ctaggactat acagtggaaa 240
c 241

```

<210> 343

<211> 241

<212> DNA

<213> Homo sapiens

<400> 343

```

gtacatgtgg tagcagtaat ttttttgaag caactgcact gacattcatt tgagttttct 60
ctcattatca gattctgttc caaacaagta ttctgtagat ccaaattgat taccagtgtg 120
ctacagactt cttattatag aacagcattc tattctacat caaaaatagt ttgtgtaagt 180
tagttttggg taccatctaa aatattttta aatgttcttt acataaaaat ttatgttgtg 240
t 241

```

<210> 344

<211> 241

<212> DNA

<213> Homo sapiens

<400> 344

```

ggtacaaaat tggttgaatt tagctaataa aaaaacatag taaatatatta caaaaacgtt 60
gataacatta ctcaagtcac acacatatata caatgtagac aggtcttaac aaagtttaca 120
aattgaaatt atggagattt cccaaaatga atctaatagc tcattgctga gcattggtat 180
caatataaca ttttaagatct tggatcaaat gttgtcccg agtcttctgc aatccagtc 240

```

100662-0130

t 241

<210> 345
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 345
 ggtacgaagc tgagcgcacg ggggttgccc cagcgtggag cctggacctc aaacttcacg 60
 gaaaatgctc tctctctttg acaggcttcc agctgtctcc taatttcctg gatgaactct 120
 ccccgcgat ttaactgatc ctgaaaagtg gtgagaggac tgaggaagac aaccagggtca 180
 gcgttagatc ggcctctgag ggtggtgccc ttgcctgagg agccaccctt taccaccttg 240
 g 241

<210> 346
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 346
 caggtaccac tgagcctgag atggggatga gggcagagag aggggagccc cctcttccac 60
 tcagttgttc ctactcagac tgttgactc taaacctagg gaggttgaag aatgagaccc 120
 ttaggtttta acacgaatcc tgacaccacc atctataggg tcccaacttg gttattgtag 180
 gcaaccttcc ctctctcctt ggtgaagaac atcccaagcc agaaagaagt taactacagt 240
 g 241

<210> 347
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 347
 aggtacatct aaaggcatga agcactcaat tgggcaatta acattagtgt ttgttctctg 60
 atggtatctc tgagaatact ggttgtagga ctggccagta gtgccttcg gactgggttc 120
 acccccagggt ctgcggcagt tgtcacagcg ccagccccgc tggcctccaa agcatgtgca 180
 ggagcaaatg gcaccgagat attccttctg ccactgttct cctacgtggt atgtcttccc 240
 a 241

<210> 348
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 18, 29, 35, 56, 57, 64, 76, 77, 85, 102, 103, 104, 189,
 232
 <223> n = A,T,C or G

<400> 348
 angacttgg caagattnga tgctcttgng ctcantgaca tcattcataa cttgttngtg 60
 tgancagagg aggagnncat catcntgtcc tcattcgtca gnnccctctc ctctctgaat 120
 ctcaacaag ttgataatgg agaaaaattt gaattctcag gattgaggct ggactgggtc 180
 cgctacang catacactag cgtggctaag gccctctgc accctgcatg anaacctga 240

c 241

<210> 349
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 349
 gcaggtacca tttgtctgac ctctgtaaaa aatgtgatcc tacagaagtg gagctggata 60
 atcagatagt tactgctacc cagagcaata tctgtgatga agacagtgct acagagacct 120
 gctacactta tgacagaaac aagtgtctaca cagctgtggg cccactcgta tatgggtggg 180
 agaccaaatt ggtggaaaca gccttaaccc cagatgcctg ctatcctgac taatttaagt 240
 c 241

<210> 350
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 350
 aggtactgtg gatattttaa atatcacagt aacaagatca tgcttggtcc tacagtattg 60
 cgggccagac acttaagtga aagcagaagt gtttgggtga ctttcctact taaaattttg 120
 gtcatatcat ttcaaaacat ttgcatcttg gttggctgca tatgctttcc tattgatccc 180
 aaaccaaatc ttagaatcac ttcattttaa atactgagcg gtattgaata cttcgaagca 240
 g 241

<210> 351
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 351
 tacagaaatc atttggagcc gttttgagac agaagtagag gctctgtcaa gtcaatactg 60
 cattgcagct tgggtccactg aagaagccac gcctgagata caaaagatgc actacacttg 120
 acccgcttta tggtcgcttc ctctccctt ctctctcatc aactttatta gggttaaaca 180
 ccacatacag gctttctcca aatgactccc tatgtctggg gtttgggttag aattttatgc 240
 c 241

<210> 352
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 28, 29, 49, 54, 59, 72, 127, 148, 150, 160, 166, 182
 <223> n = A,T,C or G

<400> 352
 gtaccctgtg gagctgcacc aagattannt ggggccatca tgactgcanc cacnacgang 60
 acgcaggcgt gnagtgcacg gtctgaccgg gaaacccttt cacttctctg ctcccagagt 120
 gtccctcngc tcatatgtgg gaaggcanan gatctctgan gagttncctg gggacaactg 180
 ancagcctct ggagaggggc cattaataaa gctcaacatc attggcaaaa aaaaaaaaaa 240
 a 241

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<210> 353
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 353
 aggtaccagt gcattaattht gggcaaggaa agtgtcataa tttgatactg tatctgtttt 60
 ccttcaaagt atagagcttt tggggaagga aagtattgaa ctgggggttg gtctggccta 120
 ctgggctgac attactaca attatgggaa atgcaaaagt tgtttggata tggtagtggt 180
 tggttctctt ttggaattht tttcagggtga tttataata atttaaaact actataaaaa 240
 c 241

<210> 354
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 354
 ngcagggtccg ggcagggtacc aagattcatt ctcatcaaaa actagaaaca gaagggcaaa 60
 ttccagtttc ctctctggat tgaatacttt caagtaagggt ctctgacaaa caatcagggg 120
 gccaatatcc cactgttaga ggtccttaac ttgatccaca gttgaataat aagcccatgg 180
 aatacaagca gaatcctctg ttccagctcc agatctttct gggattttcc atacgtaagt 240
 g 241

<210> 355
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 355
 ggtaccaccacc ctaaatttga actcttatca agaggctgat gaatctgacc atcaaataagg 60
 ataggatgga cttttttttg agttcattgt ataaacaaat tttctgattt ggacttaatt 120
 cccaaaggat taggtctact cctgctcatt cactctttca aagctctgtc cactctaact 180
 tttctccagt gtcatagata ggggaattgct cactgcgtgc ctagtctttc ttcacttacc 240
 t 241

<210> 356
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27
 <223> n = A,T,C or G

<400> 356
 aggtactgta attgagcatc cggaatntgg agaagtaatt tagctacagg gtgaccaacg 60

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```

caagaacata tgccagttcc tcgtagagat tggactggct aaggacgac agctgaaggt 120
tcatggggtt taagtgcttg tggctcactg aagcttaagt gaggatttcc ttgcaatgag 180
tagaatttcc cttctctccc ttgtcacagg tttaaaaacc tcacagcttg tataatgtaa 240
c                                                    241

```

```

<210> 357
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<400> 357
ttttgtacca ccgatatgat caaggaaaat tctgcccatt tttatggctg aagttctaaa 60
aacctaattc aaagttcttc catgatccta cactgcctcc aagatgggcc aggctggcat 120
aaggcctgag cggcggtgag atccgcggct gccagcagct tgtcgctctt cagctggtat 180
gaagccctc ggccaccgga gtctccagga cctgcccggg cgccgctcga aagggcgaat 240
t                                                    241

```

```

<210> 358
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25, 57
<223> n = A,T,C or G

```

```

<400> 358
agggtacggg agtgggggtg aagcntgttc tctacatagg caacacagcc gcctaantca 60
caaagtcagt ggtcgggcgc ttcgaccaac atgtgggtgag cattccacgg gcgcatgaag 120
tctgggtgct gtgctcgagt ctctgaatat ttgatagga agcgacaaga aaattcaaac 180
tgctctttgc tgactactgg aaagtgaaaa gatgctcaag tttaccattc aaagaaacca 240
t                                                    241

```

```

<210> 359
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<400> 359
gaggtacaca aaaggaatac cttctgagag ccaggagtg aggaaagggg aaggagactt 60
gacgtcaagg gtgcttttga ggaacatgac gggccagcca gcctgcccc aactttgaggc 120
cctgctgggc tcttgtgact ataaatatac tgtctatttc taatgcaatc cgtctttcct 180
gaaagatctt gttatctttt actattgaga catgctttca tttttgtggt cctgtttcca 240
a                                                    241

```

```

<210> 360
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1

```

<223> n = A,T,C or G

<400> 360

```
ngtactctat actaattctg cttttttata cttaattcta aattttctccc ctctaattta 60
caacaaatit tgtgattttt ataagaatct atgcctcccc aattctcaga ttcttctctt 120
ttctccttta tttctttgct taaattcagt ataagctttc ttggtatttt aggcttcatg 180
cacattctta ttcttaaaca ccagcagttc ttcagagacc taaaatccag tataggaata 240
a 241
```

<210> 361

<211> 241

<212> DNA

<213> Homo sapiens

<400> 361

```
aggtactctc cgtgccccga cactgaacat tatccagcca gatctgccc gtgccagctc 60
ccactttgta cttttcttac tatcctgtct agaatcatgt cttatgattt taacagatat 120
agaaccactc ctagaaaatg ttctttcact ttctcgtttc ctttttaatc tatcatcctg 180
actactgaac ttaaaatctt tttcttccct tttttgtttc tcttttcttt tatcctgttc 240
a 241
```

<210> 362

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17, 23

<223> n = A,T,C or G

<400> 362

```
aggtactttt atacctngct tangtcagtg acagatttac caatgacaac acaattttta 60
aattccaaca catatattac ttgtcctat gaaggcaca aagtcaatat attttaaatt 120
ttaaaaacag aatggatata atgacctttt tacacatcag tgatatttaa aagacttaaa 180
gagacaatac tatggttgag aactggcctt cctattccag ccctaattaa agaaaaaata 240
g 241
```

<210> 363

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4

<223> n = A,T,C or G

<400> 363

```
ttangtacta aaaacaaaat cctaattctg ttttaaagag ctgggagatg ttaatcatat 60
gtcagttttt tccacgttat aatttcctaa atgcaaactt ttcaatcagg gcagttcaaa 120
ttcattacat cacagtaaat aacagtagcc aactttgatt ttatgcttat aggaaaaaaa 180
atcctgtaga tataaaaaca gcaaattttg acaataaaaa ctcaaaccat tcatccctaa 240
a 241
```

1007633.031302

<210> 364
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 364
 ggtacaagca gttagtctctg aaggccccctg ataagaatgt catctttctcc ccaactgagca 60
 tctccaccgc cttggccttc ctgtctcttg gggcccataa taccaccctg acagagattc 120
 tcaaaggcct caagttcaac ctcacggaga cttctgaggc agaaattcac cagagcttcc 180
 agcacctcct gcgcaccctc aatcagtcca gcgatgagct gcagctgagt atgggaaatg 240
 c 241

<210> 365
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 365
 cgagggtactg agattacagg catgagccac cacgcccggc caaaaacatt taaaaaatga 60
 ctgtccctgc tcaaatactg cagtaggaaa tgtaatttga catatatcac ttccagaaaa 120
 aaactttaaa tctttctata aaatgaattt gatacatcat cagcatgaag tgaagttaaa 180
 atctcttaca aagtaaattc aggtatatca acaatgagat ccaaaagtat cggttcaaga 240
 t 241

<210> 366
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 366
 ggcagggtaca catcaaacac ttcatgtcct aaatgcaggg acatgcttcc atctgaccac 60
 ttgactatcc gagcattgct ttctttaatt tcatttcctt cttcatctcg gcgtatcctc 120
 catcttatag tattttctac ctttaatttt aacctggttc taccttcttc atccagcatt 180
 tcttcatctt caaattcatc ttcataatac tgggctctac acttgagaaa gttgggcagt 240
 t 241

<210> 367
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25
 <223> n = A,T,C or G

<400> 367
 gcagggtacaa ataattcctg ttgtnacatt tagtggacgc gattatctgt atacctcaaa 60
 ttttaattta agaaagtatc acttaaagag catctcattt tctatagatt gaggcttaat 120
 tactgaaaag tgactcaacc aaaaagcaca taacctttta aaggagctac acctaccgca 180
 gaaagtcaga tgccctgtaa ataactttgg tctttcaaaa tagtggcaat gcttaagata 240
 c 241

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<210> 368
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 368
 tttgtacatt gttaatagtg accctcggag gaaatggatt tctcttctat taaaaactct 60
 atggatatata agcattacat aataatgcta cttaccacc tttgtctca agaattatca 120
 ccaaagtttt ctggaaataa gtccacataa gaattaaata tttaaaagg gaaatgttcc 180
 ttattttaac tttagcaaga tcttttcttt ttcattaaga aacacttta taattttaaa 240
 g 241

<210> 369
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 369
 gcaggacttt tattcttatt tcttacccta tattctgtgt tacagaaaaa ctactaccat 60
 aaacaaaaca ccaaccagcc acagcagttg tgtcaagcat gacaattggc ctagtcttca 120
 catcttatta gtaagtctat caagtaagag atgaagggtc tagaaaacta gacacaaagc 180
 aaccagggtc caaatcacca aggtagatct gtgcttagct aaagggaac acccgaagat 240
 t 241

<210> 370
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 370
 ngttcacagt gcccctccgg cctcgccatg aggtctcttc tgctcgctccc ggtcctggtg 60
 gtgggttctgt cgatcgtctt ggaaggccca gcccagccc aggggacccc agacgtctcc 120
 agtgccttgg ataagctgaa ggagtttgg aacacactgg aggacaaggc tcgggaactc 180
 atcagccgca tcaaacagag tgaactttct gccaatatgc gggagtgggt ttcagaagac 240
 a 241

<210> 371
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 227
 <223> n = A,T,C or G

<400> 371
 ggcaggatcat cttgagcctt gcacatgata ctgagattcc tcacccttgc ttaggagtaa 60
 aacaatatac tttacagggt gataataatc tccatagtta tttgaagtgg cttgaaaaag 120

gcaagattga cttttatgac attggataaa atctacaaat cagccctcga gttattcaat 180
 gataactgac aaactaaatt atttccctag aaaggaagat gaaaggnagt ggagtgtggt 240
 t 241

<210> 372
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 27, 59
 <223> n = A,T,C or G

<400> 372
 aggtacagca aagcgaccct tggtgnnata gatcagacgg aaattctctc ccgtcttgnc 60
 aatgctgatg acatccatga atccagcagg gtaggttata tcagttcggg ccttgccatc 120
 gattttaatg aaccgctgca tgcaaactct ctttacttca tctcctgtca gggcatactt 180
 aagtctgttc ctcaggaaaa tgatgagggg gagacactct ctcaacttgt ggggaccggg 240
 g 241

<210> 373
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 373
 tactgaaaca gaaaaaatgt attcccacaa aagctgttac acagcggttt cccgtcccca 60
 gaagcagtag aaaatcttag cattccaatg gaaggcatgt atttgtaaaa tattctaaaa 120
 tcagctctat agtttccttg tcctctttga taagggatca gacagagggg gtgtccccct 180
 tcagcagcta cccttcttga caaactgggc tccaataata cctttcagaa acttacaaga 240
 c 241

<210> 374
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 374
 caggtactaa aacttacaat aaatatcaga gaagccgtta gtttttacag catcgtctgc 60
 ttaaaagcta agttgaccag gtgcataatt tcccatcagt ctgtccttgc agtaggcagg 120
 gcaatttctg ttttcatgat cggaatactc aaatatatcc aaacatcttt ttaaaacttt 180
 gatttatagc tcctagaaaag ttatgttttt taatagtcac tctactctaa tcaggcctag 240
 c 241

<210> 375
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 375
 aggtacaaag gaccagtatc cctacctgaa gtctgtgtgt gagatggcag agaacggtgt 60
 gaagaccatc acctccgtgg ccatgaccag tgctctgccc atcatccaga agctagagcc 120
 gcaaattgca gttgccaaata cctatgcctg taaggggcta gacaggattg aggagagact 180

10076622.021302

c 241

<210> 380
<211> 241
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 24, 25, 26, 34, 36, 56, 113, 129, 137, 184, 185, 208, 210,
237, 240
<223> n = A,T,C or G

<400> 380
acgtacacgc agaccgacat gggnnnttca ggcntnagat caaactcaaa acctgnaatg 60
atatccactc tcttttttctt aagctcaggg aaatattcca agtagaagtc canaaagtca 120
tcggctaana tgcttcngaa tttgaattca tgcacatagg ccttgaaaaa actgtcaaac 180
tgannctgat caccaccaa gtgggcctn tatgacacaa agcagaaacc tttctctan 240
g 241

<210> 381
<211> 241
<212> DNA
<213> Homo sapiens

<400> 381
aggtacaact taatggatta gcttttgggt ttaactgaat atatgaagaa attgggtctg 60
tctaaagaga gggatattca tatggctttt agttcacttg tttgtatttc atcttgattt 120
ttttcttttg aaaataaagc attctatttg gttcagattt ctcagatttg aaaaaggctc 180
tatctcagat gtagtaaatt atttcctttc agtttgtgaa agcaggattt gactctgaaa 240
g 241

<210> 382
<211> 241
<212> DNA
<213> Homo sapiens

<400> 382
gtactgctat aatcaatagc totgatagac aggtttatcc actatattga ccctacctct 60
aaaaggattg tcataattta tatgctttat gtttacacct atgatacagt tgccttggaa 120
cacaaaattt ttcattgtaa ttaaaaaaag aagagttgtg cagacagaag aaatcaaadc 180
taagaaaatc acaggagtag ataaatactc tagaattcat atacccttgg aagatggggt 240
t 241

<210> 383
<211> 241
<212> DNA
<213> Homo sapiens

<400> 383
ggcaggtaca aagtcttctc tttgcttttt ataattttta agcaaataac acattttaact 60
gtattttaagt ctgtgcaaat aatccttcag aagaaatadc caagattctg tttgcagagg 120
tcattttgtc tctcaaagat gattaaatga gtttgccttc agataaagtg ctcctgtcca 180
gcagaactca aaaggccttc aagctgttca gtaagtgtag ttcagataag actccgtcat 240

"229300" 100000

a 241

<210> 384
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 384
 ggtacacaaa atacacttgc aagcttgctt acagagacct gttaaacaaa gaacagacag 60
 attctataaa atcagttata tcaacatata aaggagtgtg attttcagtt tgttttttta 120
 agtaaatatg accaaactga ctaaataaga aggcaaaaca aaaaattatg cticccttgac 180
 aaggcctttg gagtaaacaa aatgctttaa ggctcctggg gaatgggggtt gcaaggatga 240
 a 241

<210> 385
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 385
 ggcaggtcta caatggctct gtcccttctg tggaaatcgtt acaccaagag gtctcagtcc 60
 tgggccctga cccacacagt agctgttttag atgatccttc acatcttcct gatcaactgg 120
 aagacactcc aatcctcagt gaagactctc tggagccctt caactctctg gcaccaggta 180
 ggtttgaggg ctatgtccct ttaacttata catgcagagt agccaaactt tacctgaaag 240
 a 241

<210> 386
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 386
 aggtaccttt ttcctctcca aaggaacagt ttctaaagtt ttctgggggg aaaaaaaact 60
 tacatcaa at ttaaaccata tggttaaactg catattagtt gtgttacacc aaaaaattgc 120
 ctacagctgat ctacacaagt ttcaaagtca ttaatgcttg atataaattt actcaacatt 180
 aaattatctt aaattattaa ttaaaaaaaaa aactttctaa gggaaaaata aacaaatgta 240
 g 241

<210> 387
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 387
 accccactgg ccgctgtgga gtatctccac tctccctctg tgagggccgc tcccaccgac 60
 cagtcgaact ttcgtaaactg gagttaatgt gtttccactc cctttttccc ctttctggcc 120
 ttttggtcca gaatttcctg gccttccggc atatcctggg agtcctcgac ttccaggaaa 180
 gccaatgtct ccccgatcac ctttaagacc cggaggacct attggacctg gaaatcctcg 240
 t 241

<210> 388
 <211> 241
 <212> DNA
 <213> Homo sapiens

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<400> 388
 tttgtactct tgtccacagc agagacattg agtataccat tggcatcaat gtcaaaagtg 60
 acttcaatct gaggaacacc tcgggggtgca ggagggtatgc ctgtgagttc aaacttgcca 120
 agcaggttgt tatcctttgt catggcacgc tcgccttcat aaacctgaat aagtacacca 180
 ggctggttgc cagaataggc agtgaaggc tgtgtctgct tggtaggaat ggtggtatta 240
 c 241

<210> 389
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6, 28, 38, 43
 <223> n = A,T,C or G

<400> 389
 tacctntgtt agtgagcacc ttgtcttntg tgcttatntc ttnaagataa atacatggaa 60
 ggatgtgaaa atcggaacac caactatgtg tctcactgca tctaagtga gacagccacag 120
 ctgtgagagt tttcaaagca gaaagatgct gatgtgacct ctggaattca gacatactga 180
 gctatgggtc agaagtgttt tacttaaaaa gcaacaatc cccaggaaat actgaatagg 240
 a 241

<210> 390
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 390
 gcaggtagcat ccacatgttc ctccaaatga cgtttggggc cctgcttgcc aacattcttt 60
 attgccagct gttcagggtg catcttatct tcttcttcta cagccttatt gtaattcttg 120
 gctaattcca acatctcttt taccactgat tcattgogtt tacaatgttc actgtagtcc 180
 tgaagtgtca aaccttccat ccaactcttc ttatgcaaat ttagcaacat cttctgttcc 240
 a 241

<210> 391
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 10, 14, 22, 23, 25, 40, 50, 57, 59, 65, 71, 72, 73, 76,
 77, 78, 82, 83, 84, 95, 98, 100, 101, 102, 107, 148, 152,
 155, 158, 163, 169, 170, 172, 180, 182, 192, 193, 198, 200,
 202, 203, 206, 207, 208, 213, 214, 218, 220, 224, 225
 <223> n = A,T,C or G

<221> misc_feature
 <222> 235, 236
 <223> n = A,T,C or G

100662.02130
 200720.2292007

<400> 391
 cnggcacaan cttntgtttt tnnntnttttt tttttttttt tctttatttn tttttantnt 60
 taaanaaaaa nnntannnaa annnggggtt aaatnctntn nncagancat taaaactgaa 120
 ggggaaaaaa aaaccaaaaa cgagcttntt anttnacntg ggnttggggn gntgctgatn 180
 tnaagaagca anntttanan cnngcnnnat ganngagngn tcannttgaa atttnnacc 240
 t 241

<210> 392
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 392
 gaggtactaa atggatcct tagattaaaa ttttgtgctt gataacagct gttttttcta 60
 cattagaaat aagatgccac acaaggaact acattccaga tttaaagaaa tgaaaggata 120
 ccattagtgt gtataacaga ttattgttca tacttgtaaa gcatcttatg tcattgagaa 180
 tataaagaac agtgccttag aagacagtga aaggtaagct ctagcttaat gtctatgatt 240
 t 241

<210> 393
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 57, 75, 224
 <223> n = A,T,C or G

<400> 393
 ggcaggtaca taagcataat cagttatgga cagcttcttg tataaattgc tattcancaa 60
 tacataaact gcctnaaaga tttatgctta caggtagaca ttcaatttac caataaaaaca 120
 gcatgttctg aaaatatggg cacattttta aacatattaa gacagttctg ttaaccataa 180
 tagtcccaca gtatgactga gtaataagaa tctacttcaa aagnaaaaaa aaaattaatc 240
 a 241

<210> 394
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 394
 aggtacagca gcagtagatg gctgcaacaa ccttcctcct accccagccc agaaaatatt 60
 tctgccccac ccaggatcc gggaccaaaa taaagagcaa gcaggcccc ttactgagg 120
 tgctgggtag ggctcagtgc cacattactg tgctttgaga aagaggaagg ggatttgttt 180
 ggcactttta aaatagagga gtaagcagga ctggagaggc cagagaagat accaaaattg 240
 g 241

<210> 395
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 1, 5, 8, 9, 14, 24, 26, 28, 32, 42, 54
 <223> n = A,T,C or G

<400> 395
 nggcnggnnc caanatatga aatntnanta tnatacatga tnaaaagctt tatntatttt 60
 agtgagtaat taagttttaca ctgtgaataa ggattaattc ccagatgacc atctacagtt 120
 actaccacat agaggggtata cacggatgga tcgattacaa gaatataaaa cttattttcc 180
 ttctgtatc cacatttctt tgcaatgtga atttgcaggc cctctcaaga agtggagtct 240
 a 241

<210> 396
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 396
 gaggtacacc ttgaatgaca atgctnggag cccccctgtg gtcacgacg cctccactgc 60
 cattgatgca ccattccaacc tgcgtttcct ggccaccaca cccaattcct tgctgggtatc 120
 atggcagccg ccacgtgccca ggattaccgg ctacatcatc aagtatgaga agcctgggtc 180
 tctctccaga gaagtgggtcc ctgcggccccg ccttgggtgc acagaggcta ctattactgg 240
 c 241

<210> 397
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 90
 <223> n = A,T,C or G

<400> 397
 ggcaggtacc agcaggggga tgtgtttctg gggaattgtg gctctggaag cttcacgggt 60
 tcccagaatg tggaaaatat atctgtgcan gatagaaatc ctgcccagag gctgtttctg 120
 tctcatttga gctctccttc atgtggcaga gctgactgtg gcggtttagg agcctacatt 180
 ttagaaaagc ttacctcaaa gttctgcatt gagcctgagc actggaaagg agataaaata 240
 a 241

<210> 398
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 11, 22, 27, 38, 41, 53, 59, 63, 69, 77, 78, 94, 131, 133,
 137, 149, 154, 162, 166, 167, 172, 175, 176, 179, 191, 230

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<223> n = A,T,C or G

<400> 398

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gangtgacca ngacatcacc tnacacntgg aaagcganga nttgaatggt gcntacaang 60
ccntaccnt tgcccannac ctgaacgcgc ctintgattg ggacagccgt gggaaggaca 120
gttatgaaac nantcanctg gatgaccana gtgntgaaac cnacanncac angcnntcna 180
cattatataa ncggaaagct aatgatgaga gcaatgatca ttccgatgtt attgatagtc 240
a 241
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<210> 399

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 212, 226

<223> n = A,T,C or G

<400> 399

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cagagtgaga tgggagtggg agggccaatc tgatacagaa gggggtgaag ggtagggccc 60
ctgagcagcc cacccttac cctgacgaag gcaatcctcc tctggaatgt ctcttcctc 120
ttcagttctg gttctgcctc agccacgaac tgggaaggag tgaggaacat cccaacggca 180
atgagagtat cccagtgact ccaaacagga angaatcagt gttcanaaag tcagggccct 240
t 241
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<210> 400

<211> 241

<212> DNA

<213> Homo sapiens

<400> 400

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ggtactcttg ctcttttagc tagagtgtat gtgaaaataa agaaatacat cattgtattc 60
acaaccatgt gtcttcattt ataacttttt gtttaaaaaa ttttttagttc aagtttagtt 120
cattgatatt atcctctgaa tgcagttaag gctgggcaga aattctactc atgtgacatc 180
tgccacaggt ctattttgaa gcttttcttc taatgggcaa tgtttgtcct taccaggatt 240
t 241
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<210> 401

<211> 241

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 2

<223> n = A,T,C or G

<400> 401

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nncaggtact ttgtagagca gagagaggct ttggttcttc ctttcttcaa tcacgtggag 60
atgtgtcatc acctgggatt tcatctgggc cgccttttct gggtaaacag ccaacacatg 120
ctggtaatga cggatggtat gtaagcgatc ttgtttctca gcacggacat aacgccgtaa 180
ggcctggaga atgcgatgag gccgtggcgg gtcagactgc aaggcagcca ggtagttctc 240
c 241
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<210> 402
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 27
 <223> n = A,T,C or G

<400> 402
 ggcagggtcca aaaaaaacct aaaaanngtt tcaggaatgt agagaaatat ccaacttaaa 60
 tagcgaaaaa gtgcaccata attactgctg cactgcagtc atttctgcaa ttcccatgtt 120
 tcttaaataa ctatcttgct agataacaca caatataaag agcaattatg aaaaacagac 180
 atttacatat acttctaaag tcttattggg aatatcctgt ttggccattg ggataaccaa 240
 t 241

<210> 403
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 49
 <223> n = A,T,C or G

<400> 403
 aggtgttaac taccgctcc gagacgggat tgatgacgag tcctatgang ccattttcaa 60
 gccggtcatg tccaaagtaa tggagatgtt ccagcctagt gcggtggtct tacagtgtgg 120
 ctcagactcc ctatctgggg atcggttagg ttgcttcaat ctaactatca aaggacacgc 180
 caagtgtgtg gaatttgtca agagctttaa cctgcctatg ctgatgctgg gaggcggtgg 240
 t 241

<210> 404
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 404
 cagggtactgc aaccataaaa atactgtttc ctcatatattc accttcctta atttggagtt 60
 ttctgtcttc ttttcacggc attcaaagta ggaataaact ttgcttgtgt tgggtggata 120
 ttgtttatag tgagtaacct tgtaggagtc ggtggccagg aggatgttga actcggcttc 180
 tgccgcagga ttcattctcg gccggaggac aaggggcccg cgcgccgcga gctccctgac 240
 c 241

<210> 405
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 405
 ttctgggctg gggagtggag agaaagaagt tgcagggctt acaggaaatc ccagagcctg 60

1007692229007

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aggttttctc ccagatttga gaactctaga ttctgcatca ttatctttga gtctatatctc 120
tcttgggctg taagaagatg aggaatgtaa taggtctgcc ccaagccttt catgccttct 180
gtaccaagct tgtttccttg tgcacacctc ccaggctctg gctgccccctt attggagaat 240
gtgatttcca agacaatcaa tccaca                                     266

```

<210> 406

<211> 231

<212> DNA

<213> Homo sapiens

<400> 406

```

ttggtgaaga accattcctc ggcatccttg cggttcttct ctgccatctt ctcatactgg 60
tcacgcatct cggtcagaat gcggtcagg tccacgccag gtgcagcgtc catctccaca 120
ttgacatctc caccacacct gcctctcagg gcattcatct cctcctcgtg gttcttcttc 180
aggtaggcca gtcctcctt caggctctca atctgcatct ccaggtcagc t          231

```

<210> 407

<211> 266

<212> DNA

<213> Homo sapiens

<400> 407

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cagcatcatt gtttataatc agaaactctg gtccttctgt ctggtggcac ttagagtctt 60
ttgtgccata atgcagcagt atggaggagg gatcttatgg agaatgggg atagtcttca 120
tgaccacaaa taaataaagg aaaactaagc tgcattgtgg gttttgaaaa gggtattata 180
cttcttaaca attctttttt tcagggaactt ttctagctgt atgactgtta cttgaccttc 240
tttgaaaagc attcccaaaa tgctct                                     266

```

<210> 408

<211> 261

<212> DNA

<213> Homo sapiens

<400> 408

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ctgtgtcagc gagcctcggg aactgattt ccgatcaaaa gaatcatcat ctttaccttg 60
acttttcagg gaattactga actttcttct cagaagatag ggcacagcca ttgccttggc 120
ctcacttgaa gggctctgcat ttgggtcctc tggctctctg ccaagtttcc cagccactcg 180
agggagtaat atctggaggg caaagaagag acttatgtta ttgttgaacc tccagccaca 240
gggaggagca tgggcatggg t                                     261

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<210> 409

<211> 266

<212> DNA

<213> Homo sapiens

<400> 409

```

gctgacagta atacactgcc acatcttcag cctgcaggct gctgatgggt agagtgaat 60
ctgtcccaga cccgtgccca ctgaatcggg cagggatccc ggattcccgg gtagatgccc 120
agtaaattgag cagtttagga ggctgtcctg gtttctgctg gtaccaagct aagtagttct 180
tattgttgga gctgtctaaa acactctggc tggctcttga gttgatgggt gccctctcgc 240
ccagagacac agccaggagg tgtgga                                     266

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<210> 410

<211> 181

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 17, 24, 26, 65, 97, 98, 99, 100, 103, 105, 106, 107, 108,
120, 121, 123, 142, 145, 149, 162, 177
<223> n = A,T,C or G

<400> 410
caaaaggtnc tttttgntca aaancnattt ttattccttg atatttttct tttttttttt 60
tttgnggatg gggacttggt aatttttcta aagggggnnnn ttannnnngg aagaaaaccn 120
ngntccggtt ccagccaaac cngtngctna ctttccacct tntttccacc tccctcnggt 180
t 181

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

<400> 411
gccccctgcag tacttggccg atgtggacac ctctgatgag gaaagcatcc gggctcacgt 60
gatggcctcc caccattcca agcggagagg ccgggcgtct tctgagagtc aggggtctagg 120
tgctggagtg cgcacggagg ccgatgtaga ggaggaggcc ctgaggagga agctggagga 180
gctggccagc aacgtcagtg accaggagac ctcgctccgag gaggaggaag ccaaggacga 240
aaaggcagag cccaacaggg a 261

<210> 412
<211> 171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 6, 53, 79, 91, 96, 114, 132
<223> n = A,T,C or G

<400> 412
nttttntctt tacaattcag tcttcaacaa cttgagagct ttcttcatgt tgncaagcaa 60
cagagctgta tctgcaggnt cgtaagcata nagacngttt gaatatcttc cagngatatc 120
ggctctaact gncagagatg ggtcaacaaa cataatcctg gggacatact g 171

<210> 413
<211> 266
<212> DNA
<213> Homo sapiens

<400> 413
ttaggaccaaa agatagcatc aactgtatct gaaggaactg tagtttgccg attttatgac 60
atttttataa agtactgtaa ttctttcatt gaggggctat gtgatggaga cagactaact 120
cattttgtta ttgcatataa aattatcttg ggtctctgtt caaatgagtt tggagaatgc 180
ttgacttggt ggtctgtgta aatgtgtata tatatatacc tgaatacagg aacatcggag 240
acctattcac tcccacacac tctgct 266

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<210> 414
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 86, 153, 162, 178, 184, 205
 <223> n = A,T,C or G

<400> 414
 tttgccataa ttgagtgaag agtggcagat ggcattaact ctgctccgct tcaagctggc 60
 tccatgacca ctcaaggcct cccancctg ttcgtcaagt tgctcctcaag tccaagcaat 120
 ggaatccatg tgtttgcaaa aaaagtgtgc tanttttaag gnttttcgta taagaatnaa 180
 tganacaatt ttcctacca aggangaaca aaaggataaa tataatacaa aatatatgta 240
 tatggttggt tgacaaatta tataac 266

<210> 415
 <211> 266
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 103, 223
 <223> n = A,T,C or G

<400> 415
 cctccatcca gtctattaat tggtgcccggg aagctanagt aagtagttcg ccagttaata 60
 gtttgccgaa cggttggtgcc attgctacag gcatcggtgt gtnacgctcg tcgattggta 120
 tggtttcatt cagctccggt tcccaacgat caaggcgagt tacatgatcc cccatgttgt 180
 gcaaaaaagc ggtagctcc ttcggtcctc cgatcggtgt canaagtaag ttggcccgag 240
 tgttatcact catggttatg gcagca 266

<210> 416
 <211> 878
 <212> DNA
 <213> Homo sapiens

<400> 416
 cctgacgata gccatggctg taccacttaa ctatgattct attccaactg ttcagaatca 60
 tatcacaaaa tgacttgtac acagtagttt acaacgactc ccaagagagg aaaaaaaaaa 120
 aaaaagacgc ctcaaaattc actcaacttt tgagacagca atggcaatag gcagcagaga 180
 agctatgctg caactgaggg cacatatcat tgaagatgtc acaggagttt aagagacagg 240
 ctggaaaaaa tctcactata agcaaacagt agtatctcat accaagcaaa accaagtagt 300
 atctgctcag cctgccgcta acagatctca caatcaccaa ctgtgcttta ggactgtcac 360
 caaagtcaga ttcggtgcta accagggtggc atctatgatc aacgtcgccc ctcttattta 420
 acaaagggct ctgaaggagg tgttctccaa gcaacaagga gactgcttca gtacaagact 480
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 cacagcagcc ctttttggt gttccacaa tagatacttt atggagtggc acagccaacc 780
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878

<210> 417
<211> 514
<212> DNA
<213> Homo sapiens

<400> 417
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<210> 418
<211> 352
<212> DNA
<213> Homo sapiens

<400> 418
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tcctgaagcc cttggtgata ttttgccact cagccaagaa tgaggatgca tccttcagat 240
tctctatgtc ccgaacctgg aacccatcca cgccagcttg cagccaaaac tccagagcat 300
ccttcacctt ggtggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 352

<210> 419
<211> 344
<212> DNA
<213> Homo sapiens

<400> 419
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attgagactc aaaggcttat actggcgtct gaaactatgt ccttcgttaa acccgatttt 180
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tctttgcctt tctcctttat ggcctctgcc acattttcta cctcttctcc gacctcttgg 300
tcttctctcc ggtttcttgg agccgggatt cggctttaag ttgg 344

<210> 420
<211> 935
<212> DNA
<213> Homo sapiens

<400> 420
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cgaggttctc aaagatccaa aggagggaaa gggatttggg aacactgtgt atcatctgag 180
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tgtggtcaga agagatttct acaaaagcac tcagaattct ggaggcagtt gtgattttgc 300
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<210> 421
<211> 745
<212> DNA
<213> Homo sapiens

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<400> 421
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ggttaacaac agtccccctg ttggcttcta ttctgaatcc ttttctttca ccatgggggtg 180
cctgaagggt ggctgatgca tatggtacaa tggcaccag tgtaaagcag ctacaattag 240
gagtggatgt gttctgtagc atcctattta aataagccta ttttatcctt tggcccgta 300
actctgttat ctgctgcttg tactggtgcc tgtacttttc tgactctcat tgaccatatt 360
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ggtggtgaat aggccttctt ttacatggtg ctgccagccc agctaattaa tgggtgcacgt 480
ggacttttag caagcgggct cactggaaga gactgaacct ggcatggaat tcctgaagat 540
gtttgggggt tttttctttc ttaatcgaaa gttaacattg tctgaaaagt tttgttagaa 600
ctactgcgga acctcaaaat cagtagattt ggaagtgatt caaagctaaa ctttttcctt 660
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<210> 422
<211> 764
<212> DNA
<213> Homo sapiens

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<400> 422
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cactgcttaa gtgcctgcag gagccgcctg ccaagctccc ctctctacac ctggcacact 360
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agtcattgat gcaacttgaa aggaaacagt ttaatggtgg aaatgaacta ccatattata 540
cttctgtttt ttatttgaga aaatgattca cgaattccaa atcagattgc caggaagaaa 600
taggacgtga cggtagctgg ccctgtgatt ctcccagccc ttgcagtcag ctaggtgaga 660
ggaaaagctc ttacttccg cccctggcag ggacttcttg gttatgggag aaaccagaga 720
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<210> 423

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<211> 1041
 <212> DNA
 <213> Homo sapiens

<400> 423
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 gcctttccag gatgggggtc ttttctgctc ccagcggata gtgaaacccc tgtctgcacc 180
 tgggtgggag tgggtgctttc ccaaagggtt tttttttagg tccgtcgctg tcttgtggat 240
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 agctcagggc cacagtgcga tgaggaccat ctctcacact ctctaaatgc aggaagaaac 360
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 cggcaacctg cacctgttca tcaatgccta caacaggatg tgggatgtag ttacagccaca 480
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 cgtggccctc tcaaccagca ctagggtgctt atctggagct cagctagggg aggagacagc 960
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 tgagctcgct ctgccacgca c 1041

<210> 424
 <211> 1288
 <212> DNA
 <213> Homo sapiens

<400> 424
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 ggacccaagc gaaaaaggta tctcaagact aacggccgga atctggaggc ccatgaccca 180
 gaaccacagg aggatagaag cttgaagacc tggggaaatc ccaagatgag aacctaaac 240
 cctacctctt ttctattgtt tacacttctt actcttagat atttccagtt ctctgttta 300
 tctttaagcc tgattctttt gagatgtact ttttgatgtt gccggttacc tttagattga 360
 cagtattatg cctgggcccag tcttgagcca gctttaaatc acagctttta cctatttgtt 420
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 ccaaaatcca gtcagtatct aatctggctt ttgttaactt cctcaggag cagacattca 540
 tataggatgat actgtatttc agtctttctt tttagaccca gaagccctag actgagaaga 600
 taaaatgggc aggttgttgg ggaaaaaaa gtgccaggct ctctagagaa aaatgtgaag 660
 agatgtctca ggccaatgag aagaattaga caagaaatac acagatgtgc cagacttctg 720
 agaagcacct gccagcaaca gcttcttctt ttgagcttag tccatccctc atgaaaaatg 780
 actgaccact gctgggcagc aggagggatg atgaccaact aattcccaa cccagctctc 840
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 cttaagccat ctatagtgca caattgaaac aaactgggga gttggttgct attgtaaaat 1260
 aaaatatact gttttgaaaa aaaaaaac 1288

<210> 425

<211> 446
 <212> DNA
 <213> Homo sapiens

<400> 425
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 atggcagccc atcgagtacg gcaagaagaa gctgaaatac ctgccctaca atcaccagca 180
 cgaatacttc ttcttgattg ggccgcccgt gctcatcccc atgtatttcc agtaccagat 240
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 catccgggttc ttcatcacct acatcccttt ctacggcatc ctggggagccc tcctttttcct 360
 caacttcatac aggttccttg agagccactg gtttgtgtgg gtcacacaga tgaatcacat 420
 cgtcatggag attgaccagg aggacc 446

<210> 426
 <211> 874
 <212> DNA
 <213> Homo sapiens

<400> 426
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 acattctaca atggaaactt ttattaaatg ctgcatgtac tgtgctatgg accacgcaca 120
 tacagccatg ctgtttcaga agacttgaaa tgccattgat agtttaaaaa ctctacaccc 180
 gatggagaat cgaggaagac aatttaaatgt ttcatctgaa tccagaggtg catcaaatta 240
 aatgacagct ccacttgga aataatagct gttacttgat ggtatccaag aagaaatggt 300
 tgggtgatgga taaattcaga aatgcttccc caaagggtggg tgggtttttaa aaagttttca 360
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 cgggtcttcc aagttccaag gggctggggg tccccaacga tcaagttcct gtgctgtaat 480
 caagaggggtc ctttggaactg gatagggagc acttggggagc tgtacaccat cagtcataat 540
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 cctcgtaatg gcaaaactcc ccaaatagaca ccaggacca cagcaatgat ctgtcggaac 780
 cagtagatca catctaaaaa ttcatcctta tctcccagg ccgcgtcgct ccgcagcacc 840
 ttactccaga cggagacttt gagggccccg ttgg 874

<210> 427
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 427
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 ttgatTTTTT ttcttgaaag agtaagggtt acctgttaca ttttcaagtt aattcatgta 120
 aaaaatgata gtgattttga tgtaatttat ctcttggttg aatctgtcat tcaaaggcca 180
 ataattttaag ttgctatcag ctgatattag tagctttgca accctgatag agtaaataaa 240
 ttttatgggc gggtgccaaa tactgctgtg aatctatttg tatagtatcc atgaatgaat 300
 ttatggaaat agatattttgt gcagctcaat ttatgcagag attaaatgac atcataatac 360
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 tagcatgtgg attttaaaag atttgccctc attaacaaga ataacattta aaggagattg 540
 tttcaaaata tttttgcaaa ttgagataag gacagaaaga ttgagaaaca ttgtatatTT 600
 tgcaaaaaca agatgttttg agctgtttca gagagagt 638

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<210> 428
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 428
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 tgtatggtgg tccctgcagt cagagtgtaa ggtctgtatt tgctgttaat tggatatctt 120
 atcttgcaag taaggaaggg atgggcattg ccttggtgga tggtcgagga acagctttcc 180
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 acacagagag attcatgggt ctcccaacaa aggatgataa tcttgagcac tataagaatt 480
 caactgtgat ggcaagagca gaatatttca gaaatgtaga ctatcttctc atcca 535

<210> 429
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 429
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 aaatacatag ttttcaataa ataatgctta attttacaac tttgatacag caatgtcata 180
 caccgtttca acacactaca ctctgcatgc tagatagtct acgagaagac gaaactttgc 240
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 aaaaagggtc cccccacaaa ccactcagac ttctacacaa aagggttttt cagcttttct 420
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 gtcacgaagc attatgggat gccataacca ctaggagtc caaaccggaa aaaataggcc 600
 tccgttttaa aacagtcaat tcaaaaaagg tgtcacagaa caaatgcaaa agactcttaa 660
 acccacaaca tatgt 675

<210> 430
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 430
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 gggaaacatt gtcg 434

<210> 431
 <211> 581
 <212> DNA
 <213> Homo sapiens

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<400> 431
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caagtgacca agaccagaag cagggaagat taggctagtt ctgcggcaag gtgaactgga 180
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<210> 432
<211> 532
<212> DNA
<213> Homo sapiens

<400> 432
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tagaggccga cccagaccaa agtttaaagc tcttagaatc ttcatttcca tctgtctgat 480
ttggtgctta gtataagtgt tgtcagtcac aaaagcaaag tcaccaatth ct 532

<210> 433
<211> 531
<212> DNA
<213> Homo sapiens

<400> 433
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tgaaatgact tcttaaatat ttagttgata gactgctaca ggtaataggg acttagcaag 180
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ctttatgttg ttgttggttt tggatggtgt tacatattat atgttctaga a 531

<210> 434
<211> 530
<212> DNA
<213> Homo sapiens

<400> 434
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agaagttgca ctagctttat cagtgaagga acttccaaca gtcaccacta atgtgcagaa 120
ctctcaagat aaaagcattg aaaaacatgg cagtagtaaa atagaaacaa tgaataagtc 180

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tctcatatc tctaattgca gtgtagccag tgattattta gatttggata agattactgt 240
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ctttgcacct ggtgaagatt ctgaggatga ttctgatttt tgtgagagtg aggataatga 420
cgaagacttc tctatgagaa aaagtaaagt taaagaaatt aaaaagaaag aagtgaaggt 480
aaaatcccca gtagaaaaga aagagaagaa atctaaatcc aaatgtaatg 530

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<210> 435
<211> 677
<212> DNA
<213> Homo sapiens

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tccaaaatca ttataaaaat gtatttggct ttggaatcca caggacttca aacaagcaaa 180
gtttcactgc agatagtcac aaagatgcag atacactgaa atacttaaga gccttattaa 240
tgatttttgt tattttggat ctctctgttt ttcttatta tggccgaag cctccttaat 300
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gtccattcaa gtgccgcttt atggcctaata cgcttctctg gattcagttc tgtttttcta 420
ctcttactgg aaggcttttg ctccagcagcc ttggtctggt cctcagcact ttactgtca 480
gtcagcacct gacagcttga gtcactgctc cgagagtcga accactgac aatatttcta 540
atgtcaacat gttcacattc ttctgtgttc tgtaaaactg ttgctaaatt agctgctaaa 600
atggctcctt catcaatgtt catacctgaa ttctcttcat tgccagggaa aagttttttc 660
catgcttttg ttatggt 677

```

```

<210> 436
<211> 573
<212> DNA
<213> Homo sapiens

```

```

<400> 436
acctcttagg gtgggagaaa tggatgaagag ttgttcttac aacttgctaa cctagtggac 60
agggtagtag attagcatca tccggataga tgtgaagagg acggctgttt ggataataat 120
taaggataaa atttggccag ttgacagatt ctgtttccag cagtttttac agcaacagt 180
gagtgcttca gtattgtgtt cctgtaaaatt taattttgat ccgcaatcat ttggtataca 240
atgctgtttg aagttttgtc ctattggaaa agtcttgtgt tgcaggggtg cagttaagat 300
ctttgtgatg aggaatggga tgggctaatt ttttgccgtt ttcttggaat tgggggcatg 360
gcaaatacag tagggtagtt tagttcttta cacagaacat gataaactac acctgttgat 420
gtcaccgtct gtcaatgaat attatagaag gtatgaaggt gtaattacca taataacaaa 480
acaccctgtc tttagggctg acctttcgtc ctttgacctc ctccagcctcc attcccatct 540
tcgtcagac tgcaagtatg tttgtattaa tgt 573

```

```

<210> 437
<211> 645
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 605
<223> n = A,T,C or G

```

```

<400> 437

```

```

acaattggta tccatatctt gttgaaattg taatgggaaa acaatatatt tcaatctcta 60
tgtagatagt ggggttttgt ttccataata tattctttta gtttactgta tgagttttgc 120
aggactgcat aatagatcac cacaaatcata acatcttagg accacagaca tttatgagat 180
catggcttct gtgggttaga agtatgctca tgtcttaact gggtcctctg ctcagtctta 240
tctggctgca atcaagggtg cagctgggct gaattttcat ttggaatctt gactgggaaa 300
gagtctgctt ccaagggtcat gaagtttgct ggcaaaatgt atgtttttat gacagtatga 360
ctgaaatccc aagctatctc ctgactttta gctgggtaat ctcaggccct aaatgttgcc 420
tacagttcct agaggctggt cacagttctt agccatgtgg atttcctcaa catggctgct 480
tgcttcatca agtcagcaag aatagcctgt catatcagtg tatatcaggc tcaactcagga 540
taatttccct actgatgagc caaacactaa ctgatttttag agcttaacta catctgcaaa 600
attcngttca ccagagggcaa gtcatatcca gggaaggaga agtgt 645

```

```

<210> 438
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<400> 438
acagaattga gagacaagat tgcttgtaat ggagatgctt ctagctctca gataatacat 60
atttctgatg aaaatgaagg aaaagaaatg tgtgttctgc gaatgactcg agctagacgt 120
tcccaggtag aacagcagca gctcatcact gttgaaaagg ctttggcaat tctttctcag 180
cctacaccct cacttgttgt ggatcatgag cgattaaaaa atcttttgaa gactgttggt 240
aaaaaaagtc aaaactacaa catatttcag ttggaaaatt tgtatgcagt aatcagccaa 300
tgtatttatc ggcatcgcaa ggaccatgat aaaacatcac ttattcagaa aatggagcaa 360
gaggtagaaa acttcagttg ttccagatga tgatgtcatg gtatcgagta ttctttatat 420
tcagttccta ttttaagtcat ttttgtcatg tccgcctaata tgatgtagta tgaaaccctg 480
catct 485

```

```

<210> 439
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<400> 439
acagcagttt cctcatccct gcagctgtgt ttgaacaggt catttaccat actgtcctcc 60
aggttcaaca gtatggctcc aaatgatgaa atttcattct gattttctgg ctgaagacta 120
ttctgtttgt gtatgtccac cacagttact ttatcccttc atctgtggat gggcagaatg 180
aaacatatat ggaaatgttc tgtgcaataa aaacagcagt ggtaacacag atgtaggctc 240
tgagtgtctc actggagact gaagtccaca gatatgcaac aaagcctttg tctccctgat 300
gtttttgcct cctgctggtc atgtgctttc acacatcaag agaggacatt taacatttga 360
gccacagtgt catttgctgt tgtctgatgg ttggttggca gagaatttga actggagatg 420
aactttatta tccaggacgc tgagagtata acatgcatga cagagctttt agagcactgt 480
gatgtaacat gtcaagcaga aataggggagc atgtttacag ccattctatg aaa 533

```

```

<210> 440
<211> 341
<212> DNA
<213> Homo sapiens

```

```

<400> 440
catggggtag gggggtcggg gattcattga attgtggttg gcaggagcaa gccctgctca 60
cactctcaca ctgcaccca gaattgtcaa agatacagat tgtaaaaatc tacgatccct 120
cagtctcact cacaaaaaat aaaatctcat gtccccaacg aaccagagt cagacgacag 180
ctggagcatt ggcagggaca gtcagaaagg agacaagtga aaacggtcag atggacacag 240

```


accatcctgt	tccaacagag	ccattgcta	ttcctaatt	gaatctgact	gggtgtgcc	60
ctcctcgga	cacaacagta	gaccttaata	gtggaaacat	cgatgtgcct	cccaacatga	120
caagctgggc	cagctttcat	aatgggtgtg	ctgctggcct	gaagatagct	cctgcctccc	180
agatcgactc	agcttggtt	gtttacaata	agcccaagca	tgtctgagttg	gccaatgagt	240
atgctggctt	tctcatggct	ctgggtttga	atgggcacct	taccaagctg	gcgactctca	300
atatccatga	ctacttgacc	aaggggccatg	aaatgacaag	cattggactg	ctacttggtg	360
tttctgctgc	aaaactaggc	accatggata	tgtctattac	tcggttgtt	agcattcgca	420
ttcctgctct	cttaccacca	acgtccacag	agttggatgt	tcctcacaat	gtccaagtgg	480
ctgcagtgg	tggcattggc	cttgatatc	aagggaagc	tcacagacat	actgcagaag	540

```

tcctgttggc tgagatagga cggcctcctg gtcctgaaat ggaatactgc actgacagag 600
agtcatactc cttagctgct ggcttggccc tgggcatggg ctncctgggg catggcagca 660
atttgatagg tatgtntgat ctcaatgtgc ctgagcagct ctatcagt 708

```

```

<210> 446
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<400> 446
acaagcaacg cgcagcctgg atcatcccat tcttctgtta ccagatcttt gactttgccc 60
tgaacatggt gggttgcaatc actgtgctta tttatccaaa ctccattcag gaatacatac 120
ggcaactgcc tcctaatttt ccctacagag atgatgtcat gtcagtgaat cctacctgtt 180
tggtccttat tattcttctg tttattagca ttatcttgac ttttaagggg tacttgatta 240
gctgtgtttg gaactgctac cgatacatca atggtaggaa ctctctgat gtcctggttt 300
atgttaccag caatgacact acggtgctgc taccctcgta tgatgatgcc actgtgaatg 360
gtgctgccaa ggagccaccg ccaccttacg tgtctgccta agccttcaag tgggcggagc 420
tgagggcagc agcttgactt tgcagacatc tgagcaatag ttctgttatt tcacttttgc 480
catgagcctc tctgagcttg tttgttgctg aaatgctact ttttaaaatt tagatgttag 540
attgaaaact gtagttttca acatatgctt tgctggaaca ctgtgataga ttaactgtag 600
aattcttctt gt 612

```

```

<210> 447
<211> 642
<212> DNA
<213> Homo sapiens

```

```

<400> 447
actgaaagaa ttaaagtcag aagtcttccc aaaacaaaaa gaactgcca cagagaaaaat 60
cctttctgat acttttcatt gctaaaataa aacaggcggg aaatgtggaa aagaaattca 120
acaaaataat gtagcaccag aagaacaagt cctagatgat tcaagttcaa aaggtaagct 180
ccagcaatgt ggaagaggta aagaccaatg tagacaagct gacgaggaat atcttctttt 240
ttggttttct ggaagtagag ttcaggaaaa gcatgaagcc agtaagccag ctgtgatatg 300
tagaaaaact tcatttgaaa tgtcatcagg ttatggggat aagccctcca taagatagtt 360
gggtctgaga ttagtgtttc agagatgaga atgaatgtgc cccaaacaca ggcaaaaagg 420
tagaacgcac taagtgcac agattcatta aacttgctgt gttttgtttt ggagaagtgc 480
attgcctgtt taattttatc caacatatac tcttgaatta cggcatgaat aattatcgcc 540
actagcatgt agaagaaaac agtagccaaa tctttgatgc catagtaata aagggacact 600
gattcagtag cttgtttctt tgttgctggg aggggtgacat tg 642

```

```

<210> 448
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 66
<223> n = A,T,C or G

```

```

<400> 448
accagaagac cttagaaaaa ggaggaaaagg aggagaggca gataatttgg atgaattcct 60
caaagngttt gaaaatccag aggttcctag agaggaccag caacagcagc atcagcagcg 120
tgatgttata gatgagccca ttattgaaga gccaaagccg ctccaggagt cagtgatgga 180

```

```

ggccagcaga acaaacatag atgagtcagc tatgcctcca ccaccacctc agggaggttaa 240
gcgaaaagct ggacaaattg acccagagcc tgtgatgcct cctcagcagg tagagcagat 300
ggaaatacca cctgtagagc ttccccaga agaacctcca aatatctgtc agctaatacc 360
agagttagaa cttctgccag aaaaagagaa ggag                                     394

```

<210> 449

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 66

<223> n = A,T,C or G

<400> 449

```

acaaaaaaca caaggaatac aaccaaatag aaaatagtcc tgggaatgtg gtcagaagca 60
aaggcntgag tgtctttctc aaccgtgcaa aagccgtggt cttcccgga aaccaggaaa 120
aggatccgct actcaaaaac caagaattta aaggagtctc ttaaatttcg accttgtttc 180
tgaagctcac ttttcagtgc cattgatgtg agatgtgctg gagtggctat taaccttttt 240
ttcctaaaga ttattgttaa atagatattg tggtttgggg aagttgaatt ttttatagg 300
taaatgtcat tttagagatg gggagaggga ttatactgca ggcagcttca gccatgttgt 360
gaaactgata aaagcaactt agcaaggctt cttttcatta ttttttatgt ttcacttata 420
aagtcttagg taactagtag gatagaaaca ctgtgtcccg agagtaagga gagaagctac 480
tattgattag agcc                                     494

```

<210> 450

<211> 547

<212> DNA

<213> Homo sapiens

<400> 450

```

actttgggct ccagacttca ctgtccttag gcattgaaac catcacctgg tttgcattct 60
tcattgacta ggttaactta aaacaaaaat ggtaggaaag ctttcctatg cttcgggtaa 120
gagacaaatt tgcttttgta gaattggtgg ctgagaaagg cagacagggc ctgattaaag 180
aagacatttg tcaccactag ccaccaagtt aagttgtgga acccaaaggt gacggccatg 240
gaaacgtaga tcatcagctc tgctaagtag ttaggggaag aaacatattc aaaccagtct 300
ccaaatggga tcctgtgggt acagtgaatg gccactcctg ctttatTTTT cctgagattg 360
ccgagaataa catggcactt atactgatgg gcagatgacc agatgaacat catcatccca 420
agaatatgga accaccgtgc ttgcatcaat agatttttcc ctgttatgta ggcattcctg 480
ccatccattg gcacttggct cagcacagtt aggccaacaa ggacataata gacaagtcca 540
aaacagt                                     547

```

<210> 451

<211> 384

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 9, 19, 41

<223> n = A,T,C or G

<400> 451

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```

actacttntt ggtaaang cactggtag agtcatctga ntgtaaacaa tgtccctgca 60
ctgctggaaa aatccactgg ctccaagaa aagaaaatgg tctgaagcct ctgttggtggc 120
tctcacaact catctttccc taagtcatca agctccacat cactgagggtc aatgtcatcc 180
tccacgggaa gctcgccatc cctgccgtcc caaggctctc tctcaacgat ggtagggaaa 240
gccccgcctc ctacaggtgc cgtggagcca cgcccaaaag agagctccct gagaaactcg 300
ttgatgcctt gctcactgaa ggagcctttt agcagagcaa atttcatctt gcgtgcattg 360
atggcggccca tggcggggta ccca 384

```

```

<210> 452
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 291, 341, 368
<223> n = A,T,C or G

```

```

<400> 452
actctaaagt tgcactctc acaggggtca gtgataccca ctgaacctgg caggaacagt 60
cctgcagcca gaatctgcaa gcagcgcttg tatgcaacgt ttagggccaa aggctgtctg 120
gtggggttgt tcatcacagc ataatggcct agtaggtcaa ggatccaggg tgtgaggggc 180
tcaaagccag gaaaacgaat cctcaagtcc ttcagtagtc tgatgagaac tttaactgtg 240
gactgagaag cattttcctc gaaccagcgg gcatgtcgga tggctgctaa ngcactctgc 300
aatactttga tatccaaatg gagttctgga tccagttttc naagattggg tggcactgtt 360
gtaatganaa tcttcactgt a 381

```

```

<210> 453
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<400> 453
actgtgctaa acagcctata gccaaagtttt aaagagttac aggaacaact gctacacatt 60
caaagaacag gcattcactg cagcctcctg atttgacctg atgggaggga caggagaatg 120
agtcactctg ccaccacttt tctgccttg gatttgtaga ggatttggtt tgctctaatt 180
tgtttttcct atatctgccc tactaaggta cacagtctgg gcactttgaa aatgttaaag 240
tttttaacgt ttgactgaca gaagcagcac ttaaaggctt catgaatcta ttttccaaaa 300
aaagtatgct ttcagtaaaa cattttacca ttttatctaa ctatgcactg acatttttgt 360
tcttcctgaa aaggggattt atgctaacac tgtattttta atgtaaaaat atacgtgtag 420
agatatatta acttcctgag tgacttatac ctcaa 455

```

```

<210> 454
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9
<223> n = A,T,C or G

```

```

<400> 454
acagagcanc tttaacaagt gtcacatttc ttataaatt tttttaagc tacagtttaa 60

```

20070629 09:30

```

tacaaaatga attgcggttt tattacatta ataacctttc acctcagggt tttatgaaga 120
ggaaaggggt ttatgcaaaa gaaagtgcga caattcctaa tcattttaga cacttttagga 180
gggggtgaag ttgtatgata aagcagatat tttaattatt tggtatcttt ttgtattgca 240
agaaatttct tgctagtga tcaagaaaaac atccagattg acagtctaaa atggctactg 300
gtattttagt taattcaaaa atgaaacttt tcagtgattc actttactaa cattctattt 360
gagaaggcctt attggtaaa ttt 383

```

```

<210> 455
<211> 383
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

```

```

<400> 455
actcctttan gacaaggaaa caggtatcag catgatggta gcagaaacct tatcaccaag 60
gtgcaggagc tgacttcttc caaagagttg tggttccggg cagcggtcac tgccgtgccc 120
attgctggag ggctgatttt agtggtgctt attatggttg ccctgaggat gcttcgaagt 180
gaaaataaga ggctgcagga tcagcggcaa cagatgctct cccgtttgca ctacagcttt 240
cacggacacc attccaaaaa ggggcagggt gcaaagttag acttggaatg catggtgccg 300
gtcagtgggc acgagaactg ctgtctgacc tgtgataaaa tgagacaagc agacctcagc 360
aacgataaga tcctctcgct tgt 383

```

```

<210> 456
<211> 543
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 64
<223> n = A,T,C or G

```

```

<400> 456
acaaacattt tacaaaaaag aacattacca atatcagtgg cagtaagggc aagctgaaga 60
atangtagac tgagtttccg ggcaatgtct gtcctcaaag acatccaaac tgcgttcagg 120
cagctgaaac aggttctttt cccagtgcga agcatatgtg gtcagtaata caaacgatgg 180
taaagtgggc tactacatag gccagtttaa caaactcctc ttctcctcgg gtaggccatg 240
atacaagtgg aactcatcaa ataattttaa cccaaggcga taacaacact atttcccatc 300
taaactcatt taagccttca caatgtcgca atggattcag ttacttgcaa acgatcccg 360
gttgtcatat agatacttgt tttttacaca taacgctgtg ccatcccttc ctactgccc 420
ccagtccagg ttctgttgtg tggaccgaaa ggggatacat tttagaaatg ctccctcaa 480
gacagaagtg agaaagaaag gagaccctga ggccaggatc tattaacact ggtgtgtgcg 540
caa 543

```

```

<210> 457
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<220>

```

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<221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 457
 actggtgccat atattgncat ggtgagctcc tctctaattgt cttccagggc accaatatct 60
 gcccatgtca cattagggac agtgacaaag ccttcccttt tggcagaggg ttggactgag 120
 gatagagcaa caatgaaatc attcagttca atgcacagtc cttgcatctg ctccctctgag 180
 aggggatctt ggtctcttag caaccccagc agcctttgta attcatcctg tgtttcagaa 240
 gtgggctcag ttcccagcct ttccctcctgg actccttttag atggcaaatac ttccatttca 300
 ggatttttct tctgctgttc ctgtagcttc attaagactc tattgactgc acacattgct 360
 gcctctcggc acagtgccat gagatcagca ccaacaaagc ctggagtttag gtgtgctaag 420
 tgacagaaat caaaagcttg aggaagcctc agttttctgc acaatgtttg aagtattctt 480
 tccctggatg cttcatctgg gatacctagg catatttctc ggtcgaacct tcccgcacgt 540
 ctca 544

<210> 458
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 23
 <223> n = A,T,C or G

<400> 458
 acctntaggc tcaacggcag aancttcacc acaaaagcga aatgggcaca ccacagggag 60
 aaaactgggt gtccctggatg ttgaaaagt tggctgttgt catggtgtgt tacttcatcc 120
 tatctatcat taactccatg gcacaaagt atgccaaacg aatccagcag cggttgaact 180
 cagaggagaa aactaaataa gtagagaaag ttttaactg cagaaattgg agtggatggg 240
 ttctgcctta aattgggagg actccaagcc gggaaggaaa attccctttt ccaacctgta 300
 tcaattttta caactttttt cctgaaagca gtttagtcca tactttgcac tgacatactt 360
 tttccttctg tgctaaggta ag 382

<210> 459
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 459
 ctctgtactct agccaggcac gaaacccatga agtagcctga tccttcttag ccatacctggc 60
 cgccttagcg gtagtaactt tgtgttatga atcacatgaa agcatggaat cttatgaact 120
 taatcccttc attaacagga gaaatgcaaa taccttcata tcccctca 168

<210> 460
 <211> 190
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

00766220.03307

ctgacacagc	tgaaagcttg	gtggaaaaaa	cacctgatga	ggctgcaccc	ttggtggaaa	300
gaacacctga	cacggctgaa	agcttggttg	aaaaaacacc	tgatgaggct	gcatccttgg	360
tggagggaac	atctgacaaa	attcaatggt	tggagaaagc	gacatctgga	aagttcgaac	420
agtcagcaga	agaaacacct	agggaaatta	cgagtcctgc	aaaagaaaac	tctgagaaat	480
ttacgtggcc	agcaaaagga	agacctagga	agatcgcatg	ggagaaaaaa	gaagacacac	540
ctagggaaat	tatgagtccc	gcaaaagaaa	catctgagaa	atttacgtgg	gcagcaaaag	600
gaagacctag	gaagatcgca	tgggagaaaa	aagaaacacc	tgtaaagact	ggatgcgtgg	660
caagagtaac	atctaataaa	actaaagttt	tggaaaaagg	aagatctaag	atgattgcat	720
gtcctacaaa	agaatcatct	acaaaagcaa	gtgccaatga	tcagagggttc	ccatcagaat	780
ccaaacaaga	ggaagatgaa	gaatattctt	gtgattctcg	gagtcctctt	gagagttctg	840
caaagattca	agtgtgtata	cctgagtcta	tatatcaaaa	agtaatggag	ataaatagag	900
aagtagaaga	gcctcctaag	aagccatctg	ccttcaagcc	tgccattgaa	atgcaaaact	960
ctgttccaaa	taaagccttt	gaattgaaga	atgaacaaac	attgagagca	gatccgatgt	1020
tcccaccaga	atccaaacaa	aaggactatg	aagaaaattc	ttgggattct	gagagtctct	1080
gtgagactgt	ttcacagaag	gatgtgtgtt	tacccaaggc	tacacatcaa	aaagaaatag	1140
ataaaataaa	tggaaaatta	gaagagtctc	ctaataaaga	tggctcttctg	aaggctacct	1200
gcggaatgaa	agtttctatt	ccaactaaag	ccttagaatt	gaaggacatg	caaactttca	1260
aagcagagcc	tccggggaag	ccatctgcct	tcgagcctgc	cactgaaatg	caaaagtctg	1320
tcccaataaa	agccttgga	ttgaaaaaatg	aacaaacatt	gagagcagat	gagatactcc	1380
catcagaatc	caaaacaaaag	gactatgaag	aaagttcttg	ggattctgag	agtctctgtg	1440
agactgtttc	acagaaggat	gtgtgtttac	ccaaggctrc	rcatcaaaaa	gaaatagata	1500
aaataaatgg	aaaattagaa	gggtctcctg	ttaaagatgg	tcttctgaag	gctaactgcg	1560
gaatgaaaag	ttctattcca	actaaagcct	tagaattgat	ggacatgcaa	actttcaaaag	1620
cagagcctcc	cgagaagcca	tctgccttcg	agcctgccat	tgaaatgcaa	aagtctgttc	1680
caaataaagc	cttggaattg	aagaatgaac	aaacattgag	agcagatgag	atactcccat	1740
cagaatccaa	acaaaaggac	tatgaagaaa	gttcttgagg	ttctgagagt	ctctgtgaga	1800
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aacagaaaac	tcatgagaga	caagcagtaa	gaaacttctt	ttggagaaac	aacagaccag	3420
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taccaatagt ctgtgtcaac agaatactta ttttagaaga aaaattcatg atttcttcct 3540
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tcgctctgtc actcaggctg g                                     3681

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<210> 464
<211> 1424
<212> DNA
<213> Homo sapiens

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<400> 464
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caccctgagg taattaacct ggatcatccc accctggaga gccatcctgc ccatgggtga 180
tcaaagaagg aacatctgca ggaacacctg atgaggctgc acccttggcg gaaagaacac 240
ctgacacagc tgaaagcttg gtggaaaaaa cacctgatga ggctgcaccc ttggtggaaa 300
gaacacctga cagggtgaa agcttggttg aaaaaacacc tgatgaggct gcatccttgg 360
tggaggggaa atctgacaaa attcaatggt tggagaaaagc gacatctgga aagttcgaac 420
agtcagcaga agaaacacct agggaaatta cgagtcctgc aaaagaaaaca tctgagaaat 480
ttacgtggcc agcaaaagga agacctagga agatcgcatg ggagaaaaaa gaagacacac 540
ctagggaat tatgagtcct gcaaaagaaa catctgagaa atttacgtgg gcagcaaaag 600
gaagacctag gaagatcgca tgggagaaaa aagaaacacc tgtaaagact ggatgcgtgg 660
caagagtaac atctaataaa actaaagttt tggaaaaagg aagatctaag atgattgcat 720
gtcctacaaa agaatactct acaaaagcaa gtgccaatga tcagagggtt ccatcagaat 780
ccaaacaaga ggaagatgaa gaataattct gtgattctcg gagtctcttt gagagtctctg 840
caaagattca agtgtgtata cctgagtcta tatatcaaaa agtaatggag ataaatagag 900
aagtagaaga gcctcctaag aagccatctg ccttcaagcc tgccattgaa atgcaaaact 960
ctgttccaaa taaagccttt gaattgaaga atgaacaaac attgagagca gatccgatgt 1020
tcccaccaga atccaaacaa aaggactatg aagaaaattc ttgggattct gagagtctct 1080
gtgagactgt ttcacagaag gatgtgtgtt tacccaaggc tacacatcaa aaagaaatag 1140
ataaaataaa tggaaaatta gaaggtaaga accgtttttt atttaaaaaat cagttgaccg 1200
aatattttct taaactgatg aggagggata tcctctagta gctgaagaaa attacctcct 1260
aatgcaaac catggaaaaa aagagaagtg caatggctcg aagttgtatg tctcatcagg 1320
tgttggcaac agactatatt gagagtgtctg aaaaggagct gaattattag tttgaattca 1380
agatattgca agacctgaga gaaaaaaaaa aaaaaaaaaa aaaa                                     1424

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<210> 465
<211> 674
<212> DNA
<213> Homo sapiens

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<400> 465
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cacacccgtg ggtaattaac ctggatcatc ccaccctgga gagccatcct gcccatgggt 180
gatcaaagaa ggaacatctg caggaaacacc tgatgaggct gcacccttgg cggaaagaac 240
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aagaacacct gacacggctg aaagcttggg ggaaaaaaca cctgatgagg ctgcatcctt 360
ggtggaggga acatctgaca aaattcaatg tttggagaaa gcgacatctg gaaagttcga 420
acagtcagca gaagaaacac ctagggaat taccagtcct gcaaaagaaa catctgagaa 480
atttacgtgg ccagcaaaaag gaagacctg gaagatcgca tgggagaaaa aagatgactc 540
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660
aaaaaaaaaa aaaa                                     674

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<210> 466
 <211> 1729
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 1128
 <223> n = A,T,C or G

<400> 466
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 aagaagacac acctagggaa attatgagtc ccgcaaaaga aacatctgag aaatttacgt 180
 gggcagcaaa aggaagacct aggaagatcg catgggagaa aaaagaaaca cctgtaaaga 240
 ctggatgctg ggcaagagta acatctaata aaactaaagt tttggaaaaa ggaagatcta 300
 agatgattgc atgtcctaca aaagaatcat ctacaaaagc aagtgccaat gatcagaggt 360
 tcccatcaga atccaaacaa gaggaagatg aagaatattc ttgtgattct cggagtctct 420
 ttgagagttc tgcaaaagatt caagtgtgta tacctgagtc tatatatcaa aaagtaatgg 480
 agataaatag agaagtagaa gagcctccta agaagccatc tgccttcaag cctgccattg 540
 aaatgcaaaa ctctgttcca aataaagcct ttgaattgaa gaatgaacaa acattgagag 600
 cagatccgat gttccacca gaatccaaac aaaaggacta tgaagaaaaa tcttgggatt 660
 ctgagagttc ctgtgagact gtttcacaga aggatgtgtg tttacccaag gctacacatc 720
 aaaaagaaat agataaaaata aatggaaaat tagaagagtc tcctaataaa gatggtcttc 780
 tgaaggctac ctgcggaatg aaagtttcta ttccaactaa agccttagaa ttgaaggaca 840
 tgcaaaacttt caaagcagag cctccgggga agccatctgc cttcgagcct gccactgaaa 900
 tgcaaaagtc tgtcccaaat aaagccttgg aattgaaaaa tgaacaaaca ttgagagcag 960
 atgagatact cccatcagaa tccaaacaaa aggactatga agaaaattct tgggatactg 1020
 agagtctctg tgagactggt tcacagaagg atgtgtgttt acccaaggct gcgcatcaaa 1080
 aagaaataga taaaataaat ggaaaattag aagggtctcc tggtaaanat ggtcttctga 1140
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 gtctctgtga gactgtttca cagaaggatg tgtgtttacc caaggctgcg catcaaaaag 1440
 aaatagataa aataaatgga aaattagaag gtaagaaccg ttttttattt aaaaatcatt 1500
 tgaccaaata tttctctaaa ttgatgagga aggatatcct ctagtagctg aagaaaatta 1560
 cctcctaaat gcaaaccatg gaaaaaaaga gaagtgcaat ggtcataagc tatgtgtctc 1620
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<210> 467
 <211> 1337
 <212> DNA
 <213> Homo sapiens

<400> 467
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 tgaaggctaa ctgcggaatg aaagtttcta ttccaactaa agccttagaa ttgatggaca 120
 tgcaaaacttt caaagcagag cctcccgaag agccatctgc cttcgagcct gccattgaaa 180
 tgcaaaagtc gtttccaaat aaagccttgg aattgaagaa tgaacaaaca ttgagagcag 240
 atgagatact cccatcagaa tccaaacaaa aggactatga agaaagttct tgggattctg 300
 agagtctctg tgagactggt tcacagaagg atgtgtgttt acccaaggct gcgcatcaaa 360

```

aagaaataga taaaataaat ggaaaattag aagagtctcc tgataatgat ggttttctga 420
aggctccctg cagaatgaaa gtttctattc caactaaagc cttagaattg atggacatgc 480
aaactttcaa agcagagcct cccgagaagc catctgcctt cgagcctgcc attgaaatgc 540
aaaagtctgt tccaaataaa gccttggaat tgaagaatga acaaacattg agagcagatc 600
agatgttccc ttcagaatca aaacaaaaga aggttgaaga aaattcttgg gattctgaga 660
gtctccgtga gactgtttca cagaaggatg tgtgtgtacc caaggctaca catcaaaaag 720
aatggataa aataagtgga aaattagaag attcaactag cctatcaaaa atcttggata 780
cagttcattc ttgtgaaaga gcaagggaac ttcaaaaaga tctactgtgaa caacgtacag 840
gaaaaatgga acaaatgaaa aagaagtttt gtgtactgaa aaagaaactg tcagaagcaa 900
aagaaataaa atcacagtta gagaaccaaa aagttaaatg ggaacaagag ctctgcagtg 960
tgagattgac tttaaaccaa gaagaagaga agagaagaaa tgccgatata ttaaatgaaa 1020
aaattaggga agaattagga agaatcgaag agcagcatag gaaagagtta gaagtgaac 1080
aacaacttga acaggctctc agaatacaag atatagaatt gaagagtgtg gaaagtaatt 1140
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tgaaaaagga aattgccatg ctaaaactgg aaatagccac actgaaacac caataccagg 1260
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<210> 468
<211> 2307
<212> DNA
<213> Homo sapiens

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tacacatcaa aaagaaatag ataaaataaa tggaaaatta gaagggtctc ctgttaaaga 180
tggtcttctg aaggctaact gcggaatgaa agtttctatt ccaactaaag ccttagaatt 240
gatggacatg caaactttca aagcagagcc tcccgagaag ccatctgcct tcgagcctgc 300
cattgaaatg caaaagtctg ttccaaataa agccttgga tgaagaatg acaaacatt 360
gagagcagat gagatactcc catcagaatc caaacaaaag gactatgaag aaagttcttg 420
ggattctgag agtctctgtg agactgtttc acagaaggat gtgtgtttac ccaaggctac 480
acatcaaaaa gaaatagata aaataaatgg aaaattagaa gagtctcctg ataattgatg 540
ttttctgaag tctccttgca gaatgaaagt ttctattcca actaaagcct tagaattgat 600
ggacatgcaa actttcaaag cagagcctcc cgagaagcca tctgccttcg agcctgccat 660
tgaaatgcaa aagtctgttc caaataaagc cttggaattg aagaatgaac aaacattgag 720
agcagatcag atgttccctt cagaatcaaa acaaaaagaac gttgaagaaa attcttggga 780
ttctgagagt ctccgtgaga ctgtttcaca gaaggatgtg tgtgtaccca aggctacaca 840
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<210> 469
<211> 650
<212> PRT
<213> Homo sapiens
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<400> 469															
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Gly	Arg	Pro	Arg 20	Lys	Ile	Ala	Trp	Glu 25	Lys	Lys	Glu	Thr	Pro 30	Val	Lys
Thr	Gly	Cys 35	Val	Ala	Arg	Val 40	Thr	Ser	Asn	Lys	Thr	Lys 45	Val	Leu	Glu
Lys	Gly 50	Arg	Ser	Lys	Met 55	Ile	Ala	Cys	Pro	Thr 60	Lys	Glu	Ser	Ser	Thr
Lys 65	Ala	Ser	Ala	Asn 70	Asp	Gln	Arg	Phe	Pro	Ser 75	Glu	Ser	Lys	Gln	Glu
Glu	Asp	Glu	Glu 85	Tyr	Ser	Cys	Asp	Ser 90	Arg	Ser	Leu	Phe	Glu 95	Ser	Ser
Ala	Lys	Ile 100	Gln	Val	Cys	Ile	Pro	Glu 105	Ser	Ile	Tyr	Gln	Lys 110	Val	Met
Glu	Ile	Asn 115	Arg	Glu	Val	Glu	Glu 120	Pro	Pro	Lys	Lys	Pro 125	Ser	Ala	Phe
Lys	Pro 130	Ala	Ile	Glu	Met	Gln 135	Asn	Ser	Val	Pro	Asn 140	Lys	Ala	Phe	Glu
Leu 145	Lys	Asn	Glu	Gln 150	Thr	Leu	Arg	Ala	Asp	Pro 155	Met	Phe	Pro	Pro	Glu
Ser	Lys	Gln	Lys 165	Asp	Tyr	Glu	Glu	Asn	Ser 170	Trp	Asp	Ser	Glu 175	Ser	Leu
Cys	Glu	Thr 180	Val	Ser	Gln	Lys	Asp 185	Val	Cys	Leu	Pro	Lys 190	Ala	Thr	His
Gln	Lys 195	Glu	Ile	Asp	Lys	Ile	Asn 200	Gly	Lys	Leu	Glu	Glu 205	Ser	Pro	Asn
Lys	Asp 210	Gly	Leu	Leu	Lys	Ala 215	Thr	Cys	Gly	Met	Lys 220	Val	Ser	Ile	Pro
Thr 225	Lys	Ala	Leu	Glu	Leu 230	Lys	Asp	Met	Gln	Thr 235	Phe	Lys	Ala	Glu	Pro
Pro	Gly	Lys 245	Pro	Ser	Ala	Phe	Glu	Pro	Ala 250	Thr	Glu	Met	Gln 255	Lys	Ser
Val	Pro	Asn	Lys	Ala	Leu	Glu	Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala

		260					265				270				
Asp	Glu	Ile	Leu	Pro	Ser	Glu	Ser	Lys	Gln	Lys	Asp	Tyr	Glu	Glu	Ser
		275					280				285				
Ser	Trp	Asp	Ser	Glu	Ser	Leu	Cys	Glu	Thr	Val	Ser	Gln	Lys	Asp	Val
		290				295					300				
Cys	Leu	Pro	Lys	Ala	Xaa	His	Gln	Lys	Glu	Ile	Asp	Lys	Ile	Asn	Gly
305					310					315				320	
Lys	Leu	Glu	Gly	Ser	Pro	Val	Lys	Asp	Gly	Leu	Leu	Lys	Ala	Asn	Cys
			325						330					335	
Gly	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys	Ala	Leu	Glu	Leu	Met	Asp	Met
		340						345					350		
Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Glu	Lys	Pro	Ser	Ala	Phe	Glu	Pro
		355					360					365			
Ala	Ile	Glu	Met	Gln	Lys	Ser	Val	Pro	Asn	Lys	Ala	Leu	Glu	Leu	Lys
		370				375					380				
Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Glu	Ile	Leu	Pro	Ser	Glu	Ser	Lys
385					390					395				400	
Gln	Lys	Asp	Tyr	Glu	Glu	Ser	Ser	Trp	Asp	Ser	Glu	Ser	Leu	Cys	Glu
			405						410					415	
Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Leu	Pro	Lys	Ala	Xaa	His	Gln	Lys
		420						425					430		
Glu	Ile	Asp	Lys	Ile	Asn	Gly	Lys	Leu	Glu	Glu	Ser	Pro	Asp	Asn	Asp
		435					440					445			
Gly	Phe	Leu	Lys	Ala	Pro	Cys	Arg	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys
	450					455				460					
Ala	Leu	Glu	Leu	Met	Asp	Met	Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Glu
465					470					475				480	
Lys	Pro	Ser	Ala	Phe	Glu	Pro	Ala	Ile	Glu	Met	Gln	Lys	Ser	Val	Pro
			485						490					495	
Asn	Lys	Ala	Leu	Glu	Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Gln
		500						505					510		
Met	Phe	Pro	Ser	Glu	Ser	Lys	Gln	Lys	Xaa	Val	Glu	Glu	Asn	Ser	Trp
		515					520					525			
Asp	Ser	Glu	Ser	Leu	Arg	Glu	Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Val
	530					535					540				
Pro	Lys	Ala	Thr	His	Gln	Lys	Glu	Met	Asp	Lys	Ile	Ser	Gly	Lys	Leu
545					550					555				560	
Glu	Asp	Ser	Thr	Ser	Leu	Ser	Lys	Ile	Leu	Asp	Thr	Val	His	Ser	Cys
			565						570					575	
Glu	Arg	Ala	Arg	Glu	Leu	Gln	Lys	Asp	His	Cys	Glu	Gln	Arg	Thr	Gly
			580					585					590		
Lys	Met	Glu	Gln	Met	Lys	Lys	Lys	Phe	Cys	Val	Leu	Lys	Lys	Lys	Leu
		595					600					605			
Ser	Glu	Ala	Lys	Glu	Ile	Lys	Ser	Gln	Leu	Glu	Asn	Gln	Lys	Val	Lys
	610					615					620				
Trp	Glu	Gln	Glu	Leu	Cys	Ser	Val	Arg	Phe	Leu	Thr	Leu	Met	Lys	Met
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Lys	Ile	Ile	Ser	Tyr	Met	Lys	Ile	Ala	Cys						
			645						650						

<210> 470

<211> 228

<212> PRT

<213> Homo sapiens

<400> 470

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 Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu
 35 40 45
 Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr
 50 55 60
 Lys Ala Ser Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu
 65 70 75 80
 Glu Asp Glu Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser
 85 90 95
 Ala Lys Ile Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met
 100 105 110
 Glu Ile Asn Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe
 115 120 125
 Lys Pro Ala Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu
 130 135 140
 Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu
 145 150 155 160
 Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
 165 170 175
 Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His
 180 185 190
 Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Lys Asn Arg
 195 200 205
 Phe Leu Phe Lys Asn Gln Leu Thr Glu Tyr Phe Ser Lys Leu Met Arg
 210 215 220
 Arg Asp Ile Leu
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<210> 471

<211> 154

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 148

<223> Xaa = Any Amino Acid

<400> 471

Met Arg Leu His Pro Trp Arg Lys Glu His Leu Thr Gln Leu Lys Ala
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 Trp Trp Lys Lys His Leu Met Arg Leu His Pro Trp Trp Lys Glu His
 20 25 30
 Leu Thr Arg Leu Lys Ala Trp Trp Lys Lys His Leu Met Arg Leu His
 35 40 45
 Pro Trp Trp Arg Glu His Leu Thr Lys Phe Asn Val Trp Arg Lys Arg
 50 55 60

10076662 001300

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<210> 472
<211> 466
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> 329
<223> Xaa = Any Amino Acid
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<400> 472															
Met 1	Ser	Pro	Ala	Lys 5	Glu	Thr	Ser	Glu	Lys 10	Phe	Thr	Trp	Ala	Ala 15	Lys
Gly	Arg	Pro	Arg 20	Lys	Ile	Ala	Trp	Glu 25	Lys	Lys	Glu	Thr 30	Pro	Val	Lys
Thr	Gly	Cys 35	Val	Ala	Arg	Val 40	Thr	Ser	Asn	Lys	Thr 45	Lys	Val	Leu	Glu
Lys	Gly 50	Arg	Ser	Lys	Met 55	Ile	Ala	Cys	Pro	Thr 60	Lys	Glu	Ser	Ser	Thr
Lys 65	Ala	Ser	Ala	Asn 70	Asp	Gln	Arg	Phe	Pro 75	Ser	Glu	Ser	Lys	Gln	Glu 80
Glu	Asp	Glu	Glu 85	Tyr	Ser	Cys	Asp	Ser 90	Arg	Ser	Leu	Phe 95	Glu	Ser	Ser
Ala	Lys	Ile 100	Gln	Val	Cys	Ile	Pro	Glu 105	Ser	Ile	Tyr 110	Gln	Lys	Val	Met
Glu	Ile 115	Asn	Arg	Glu	Val	Glu	Glu 120	Pro	Pro	Lys	Lys 125	Pro	Ser	Ala	Phe
Lys	Pro 130	Ala	Ile	Glu	Met 135	Gln	Asn	Ser	Val 140	Pro	Asn	Lys	Ala	Phe	Glu
Leu 145	Lys	Asn	Glu	Gln 150	Thr	Leu	Arg	Ala	Asp 155	Pro	Met	Phe 160	Pro	Pro	Glu
Ser	Lys	Gln	Lys 165	Asp	Tyr	Glu	Glu	Asn 170	Ser	Trp	Asp	Ser 175	Glu	Ser	Leu
Cys	Glu	Thr 180	Val	Ser	Gln	Lys	Asp 185	Val	Cys	Leu	Pro	Lys 190	Ala	Thr	His
Gln	Lys 195	Glu	Ile	Asp	Lys	Ile 200	Asn	Gly	Lys	Leu	Glu 205	Glu	Ser	Pro	Asn
Lys	Asp 210	Gly	Leu	Leu	Lys 215	Ala	Thr	Cys	Gly 220	Met	Lys	Val	Ser	Ile	Pro
Thr	Lys	Ala	Leu	Glu	Leu	Lys	Asp	Met	Gln	Thr	Phe	Lys	Ala	Glu	Pro

225 230 235 240
 Pro Gly Lys Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser
 245 250 255
 Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala
 260 265 270
 Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn
 275 280 285
 Ser Trp Asp Thr Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val
 290 295 300
 Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly
 305 310 315 320
 Lys Leu Glu Gly Ser Pro Gly Lys Xaa Gly Leu Leu Lys Ala Asn Cys
 325 330 335
 Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met
 340 345 350
 Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro
 355 360 365
 Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys
 370 375 380
 Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys
 385 390 395 400
 Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu
 405 410 415
 Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys
 420 425 430
 Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Lys Asn Arg Phe Leu
 435 440 445
 Phe Lys Asn His Leu Thr Lys Tyr Phe Ser Lys Leu Met Arg Lys Asp
 450 455 460
 Ile Leu
 465

<210> 473
 <211> 445
 <212> PRT
 <213> Homo sapiens

<400> 473
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 20 25 30
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 35 40 45
 Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val
 50 55 60
 Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp
 65 70 75 80
 Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser
 85 90 95
 Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys
 100 105 110
 Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys

115 120 125
 Leu Glu Ser Pro Asp Asn Asp Gly Phe Leu Lys Ala Pro Cys Arg
 130 135 140
 Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln
 145 150 155 160
 Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala
 165 170 175
 Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn
 180 185 190
 Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu Ser Lys Gln
 195 200 205
 Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Arg Glu Thr
 210 215 220
 Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His Gln Lys Glu
 225 230 235 240
 Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser Leu Ser Lys
 245 250 255
 Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu Leu Gln Lys
 260 265 270
 Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu Gln Met Lys Lys Lys
 275 280 285
 Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu Ile Lys Ser
 290 295 300
 Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu Cys Ser Val
 305 310 315 320
 Arg Leu Thr Leu Asn Gln Glu Glu Glu Lys Arg Arg Asn Ala Asp Ile
 325 330 335
 Leu Asn Glu Lys Ile Arg Glu Glu Leu Gly Arg Ile Glu Glu Gln His
 340 345 350
 Arg Lys Glu Leu Glu Val Lys Gln Gln Leu Glu Gln Ala Leu Arg Ile
 355 360 365
 Gln Asp Ile Glu Leu Lys Ser Val Glu Ser Asn Leu Asn Gln Val Ser
 370 375 380
 His Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn Cys Met Leu
 385 390 395 400
 Lys Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His
 405 410 415
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 420 425 430
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 435 440 445

<210> 474
 <211> 3865
 <212> DNA
 <213> Homo sapiens

<400> 474
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 caccctgagg taattaacct ggtcatcccc accctggaga gccatcctgc ccatgggtga 180
 tcaaagaagg aacatctgca ggaacacctg atgaggctgc acccttggcg gaaagaacac 240
 ctgacacagc tgaaagcttg gtggaaaaa cacctgatga ggctgcaccc ttggtggaaa 300

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gtcctacaaa	agaatcatct	acaaaagcaa	gtgccaatga	tcagaggttc	ccatcagaat	780
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ataaaataaa	tggaaaatta	gaagagtctc	ctaataaaga	tggctctctg	aaggctacct	1200
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agatatttaa	ttacaataac	catttataaaa	accgtatata	tcaatatgaa	aaagagaaag	3540

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ccagatcttt actcacaact catgctagga ggccagtcct agcatcacct tatgttgaaa 3660
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tcctgaagcc tacagacata aaataacagt gtgaagaatt acttggtcac gaattgcata 3780
aagctgcaca ggattcccat ctaccctgat gatgcagcag acatcattca atccaaccag 3840
aatctcgctc tgtcactcag gctgg 3865

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<210> 475
<211> 1002
<212> PRT
<213> Homo sapiens

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<220>
<221> VARIANT
<222> 310, 429, 522
<223> Xaa = Any Amino Acid

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<400> 475
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          35          40          45
Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr
          50          55          60
Lys Ala Ser Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu
65          70          75          80
Glu Asp Glu Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser
          85          90          95
Ala Lys Ile Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met
          100          105          110
Glu Ile Asn Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe
          115          120          125
Lys Pro Ala Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu
          130          135          140
Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu
145          150          155          160
Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
          165          170          175
Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His
          180          185          190
Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn
          195          200          205
Lys Asp Gly Leu Leu Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro
          210          215          220
Thr Lys Ala Leu Glu Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro
225          230          235          240
Pro Gly Lys Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser
          245          250          255
Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala
          260          265          270
Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser
          275          280          285

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10076662 "021302"

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Cys	Leu	Pro	Lys	Ala	Xaa	His	Gln	Lys	Glu	Ile	Asp	Lys	Ile	Asn	Gly
305					310					315					320
Lys	Leu	Glu	Gly	Ser	Pro	Val	Lys	Asp	Gly	Leu	Leu	Lys	Ala	Asn	Cys
				325					330					335	
Gly	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys	Ala	Leu	Glu	Leu	Met	Asp	Met
			340					345					350		
Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Glu	Lys	Pro	Ser	Ala	Phe	Glu	Pro
	355					360						365			
Ala	Ile	Glu	Met	Gln	Lys	Ser	Val	Pro	Asn	Lys	Ala	Leu	Glu	Leu	Lys
370					375						380				
Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Glu	Ile	Leu	Pro	Ser	Glu	Ser	Lys
385				390						395					400
Gln	Lys	Asp	Tyr	Glu	Ser	Ser	Trp	Asp	Ser	Glu	Ser	Leu	Cys	Glu	
			405					410					415		
Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Leu	Pro	Lys	Ala	Xaa	His	Gln	Lys
			420					425					430		
Glu	Ile	Asp	Lys	Ile	Asn	Gly	Lys	Leu	Glu	Glu	Ser	Pro	Asp	Asn	Asp
	435					440					445				
Gly	Phe	Leu	Lys	Ala	Pro	Cys	Arg	Met	Lys	Val	Ser	Ile	Pro	Thr	Lys
	450				455						460				
Ala	Leu	Glu	Leu	Met	Asp	Met	Gln	Thr	Phe	Lys	Ala	Glu	Pro	Pro	Glu
465				470						475					480
Lys	Pro	Ser	Ala	Phe	Glu	Pro	Ala	Ile	Glu	Met	Gln	Lys	Ser	Val	Pro
			485					490					495		
Asn	Lys	Ala	Leu	Glu	Leu	Lys	Asn	Glu	Gln	Thr	Leu	Arg	Ala	Asp	Gln
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Met	Phe	Pro	Ser	Glu	Ser	Lys	Gln	Lys	Xaa	Val	Glu	Glu	Asn	Ser	Trp
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Asp	Ser	Glu	Ser	Leu	Arg	Glu	Thr	Val	Ser	Gln	Lys	Asp	Val	Cys	Val
530					535						540				
Pro	Lys	Ala	Thr	His	Gln	Lys	Glu	Met	Asp	Lys	Ile	Ser	Gly	Lys	Leu
545				550						555					560
Glu	Asp	Ser	Thr	Ser	Leu	Ser	Lys	Ile	Leu	Asp	Thr	Val	His	Ser	Cys
			565					570					575		
Glu	Arg	Ala	Arg	Glu	Leu	Gln	Lys	Asp	His	Cys	Glu	Gln	Arg	Thr	Gly
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Lys	Met	Glu	Gln	Met	Lys	Lys	Lys	Phe	Cys	Val	Leu	Lys	Lys	Lys	Leu
	595					600					605				
Ser	Glu	Ala	Lys	Glu	Ile	Lys	Ser	Gln	Leu	Glu	Asn	Gln	Lys	Val	Lys
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Trp	Glu	Gln	Glu	Leu	Cys	Ser	Val	Arg	Leu	Thr	Leu	Asn	Gln	Glu	Glu
625				630						635					640
Glu	Lys	Arg	Arg	Asn	Ala	Asp	Ile	Leu	Asn	Glu	Lys	Ile	Arg	Glu	Glu
			645					650					655		
Leu	Gly	Arg	Ile	Glu	Glu	Gln	His	Arg	Lys	Glu	Leu	Glu	Val	Lys	Gln
	660							665				670			
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	675					680					685				
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690					695						700				
Leu	Leu	His	Glu	Asn	Cys	Met	Leu	Lys	Lys	Glu	Ile	Ala	Met	Leu	Lys
705				710						715					720

10076622.031302

Leu Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys
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 Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln
 740 745 750
 Met Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln
 755 760 765
 Tyr Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr
 770 775 780
 Ser Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile
 785 790 795 800
 Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln
 805 810 815
 Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly
 820 825 830
 Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser Thr Ile
 835 840 845
 Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys
 850 855 860
 Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg
 865 870 875 880
 Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr
 885 890 895
 Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn Glu Gln Asp
 900 905 910
 Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu
 915 920 925
 Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln Leu Val His
 930 935 940
 Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile His
 945 950 955 960
 Phe Leu Glu Arg Lys Met Gln His His Leu Leu Lys Glu Lys Asn Glu
 965 970 975
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 980 985 990
 Glu Lys Glu Lys Ala Glu Thr Glu Asn Ser
 995 1000

<210> 476
 <211> 356
 <212> DNA
 <213> Homo sapiens

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 ctgggctctg ccacccaca gtgggaaagg ccaccctaga aagaagtccg ctggcaccca 240
 taggaagggg cctcaggagc aggaagggcc aggaccagaa ccttgccac ggcaactgcc 300
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<210> 477
 <211> 1876
 <212> DNA

<213> Homo sapiens

<400> 477

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gtggcggtga gcaccggcct gtgtgcgccc tgcggccaat tgaacaccac ctgcggaggg 1440
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agctgccgga aatgttaggc accccaactc aagtcccagg ccccaggcat ctttcctgcc 1560
ctgccttgct tggcccatcc agtccaggcg cctggagcaa gtgctcagct acttctcctg 1620
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gggtcttgcc accccacagt gggaaaggcc accctagaaa gaagtccgt ggcaccata 1740
ggaaggggccc tcaggagcag gaagggccag gaccagaacc ttgcccacg caactgcctt 1800
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aaaaaaaaa aaaaaa

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<210> 478

<211> 505

<212> PRT

<213> Homo sapiens

<400> 478

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Met Thr Cys Gly Ser Gly Phe Gly Gly Arg Ala Phe Ser Cys Ile Ser
 1           5           10          15
Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr
          20          25          30
Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His
          35          40          45
Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly
          50          55          60
Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr
          65          70          75          80
Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp
          85          90          95

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Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser
100 105 110
Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu
115 120 125
Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg
130 135 140
Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu
145 150 155 160
Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu
165 170 175
Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys
180 185 190
Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe
195 200 205
Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
210 215 220
Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
225 230 235 240
Arg Leu Tyr Glu Glu Ile Arg Ile Leu Gln Ser His Ile Ser Asp
245 250 255
Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
260 265 270
Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
275 280 285
Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
290 295 300
Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
305 310 315 320
Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
325 330 335
Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
340 345 350
Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
355 360 365
Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
370 375 380
Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
385 390 395 400
Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg
405 410 415
Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser Ser Arg
420 425 430
Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg Pro Val
435 440 445
Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala Val Ser
450 455 460
Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys Gly Gly
465 470 475 480
Gly Ser Cys Gly Val Gly Ser Cys Gly Ile Ser Ser Leu Gly Val Gly
485 490 495
Ser Cys Gly Ser Ser Cys Arg Lys Cys
500 505

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20070920 22092001

<210> 479
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22
 <223> n = A,T,C or G

<400> 479
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 tccgatcaaa agaatcatca tctttacctt gacttttcag ggaattactg aactttcttc 120
 tcagaagata gggcacagcc attgccttgg cctcacttga agggctctgca tttgggtcct 180
 ctggtctctt gccaaagtttc ccagccactc gagggagaaa t 221

<210> 480
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 480
 cggcgaattc accatgggaa caagagctct gcagtg 36

<210> 481
 <211> 62
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 481
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 ca 62

<210> 482
 <211> 972
 <212> DNA
 <213> Homo sapiens

<400> 482
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 ctgaaacacc aataccagga aaaggaaaaat aaatactttg aggacattaa gatttttaaaa 180
 gaaaagaatg ctgaacttca gatgacccta aaactgaaag aggaatcatt aactaaaagg 240
 gcatctcaat atagtgggca gcttaaagtt ctgatagctg agaacacaat gctcacttct 300
 aaattgaagg aaaaacaaga caaagaaata ctagaggcag aaattgaatc acaccatcct 360
 agactggctt ctgctgtaca agaccatgat caaattgtga catcaagaaa aagtcagaaa 420
 cctgcttttc acattgcagg agatgcttgt ttgcaaagaa aaatgaatgt tgatgtgagt 480
 agtacgatat ataacaatga ggtgctccat caaccacttt ctgaagctca aaggaaatcc 540

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aaaagcctaa aaattaatct caattatgcc ggagatgctc taagagaaaa tacattgggtt 600
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atgtatcaaa acgaacaaga taatgtgaac aaacacactg aacagcagga gtctctagat 720
cagaaattat ttcaactaca aagcaaaaat atgtggcttc aacagcaatt agttcatgca 780
cataagaaag ctgacaacaa aagcaagata acaattgata ttcattttct tgagaggaaa 840
atgcaacatc atctcctaaa agagaaaaat gagagatat ttaattacaa taaccattta 900
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catcaccatt aa 972

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<210> 483
<211> 323
<212> PRT
<213> Homo sapiens

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<400> 483
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20     25     30
Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys
35     40     45
Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala
50     55     60
Glu Leu Gln Met Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg
65     70     75     80
Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr
85     90     95
Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu
100    105    110
Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp
115    120    125
His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His
130    135    140
Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser
145    150    155    160
Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
165    170    175
Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp
180    185    190
Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg Asp Gln
195    200    205
Arg Glu Thr Gln Cys Gln Met Lys Glu Ala Glu His Met Tyr Gln Asn
210    215    220
Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp
225    230    235    240
Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln Gln
245    250    255
Leu Val His Ala His Lys Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile
260    265    270
Asp Ile His Phe Leu Glu Arg Lys Met Gln His His Leu Leu Lys Glu
275    280    285
Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile
290    295    300
Tyr Gln Tyr Glu Lys Glu Lys Ala Glu Thr Glu Val Ile His His His

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305
His His His

310

315

320

<210> 484
<211> 1518
<212> DNA
<213> Homo sapiens

<400> 484
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ctcaccgggg gcttcggcag ccacagcgtg tgcggaggct ttcggggccg ctccctgcgga 180
cgcagcttcg gctaccgctc cggggggcgtg tgcggggcca gtcccccattg catcaccacc 240
gtgtcggtca acgagagcct cctcacgccc ctcaacctgg agatcgaccc caacgcgcag 300
tgcgtgaagc aggaggagaa ggagcagatc aagtccctca acagcagggt cgcggccttc 360
atcgacaagg tgcgcttcct ggagcagcag aacaaactgc tggagacaaa gctgcagttc 420
taccagaacc gcgagtgttg ccagagcaac ctggagcccc tgtttgaggg ctacatcgag 480
actctgcggc gggaggccga gtgcgtggag gccgacagcg ggaggctggc ctcagagctt 540
aaccacgtgc aggagggtgct ggagggtctac aagaagaagt atgaggagga ggtttctctg 600
agagcaacag ctgagaacga gtttgtggct ctgaagaagg atgtggactg cgcctacctc 660
cgcaagtcag acctggaggc caacgtggag gccctgatcc aggagatcga ctccctgagg 720
cggtgtatg aggaggagat ccgcattctc cagtgcgaca tctcagacac ctccgtgggt 780
gtcaagctgg acaacagccg ggacctgaac atggactgca tcattgccga gattaaggca 840
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agctgccgga aatgttag 1518

<210> 485
<211> 505
<212> PRT
<213> Homo sapiens

<400> 485
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1 5 10 15
Ala Cys Gly Pro Arg Pro Gly Arg Cys Cys Ile Thr Ala Ala Pro Tyr
20 25 30
Arg Gly Ile Ser Cys Tyr Arg Gly Leu Thr Gly Gly Phe Gly Ser His
35 40 45
Ser Val Cys Gly Gly Phe Arg Ala Gly Ser Cys Gly Arg Ser Phe Gly
50 55 60
Tyr Arg Ser Gly Gly Val Cys Gly Pro Ser Pro Pro Cys Ile Thr Thr
65 70 75 80

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Val Ser Val Asn Glu Ser Leu Leu Thr Pro Leu Asn Leu Glu Ile Asp
 85 90 95
 Pro Asn Ala Gln Cys Val Lys Gln Glu Glu Lys Glu Gln Ile Lys Ser
 100 105 110
 Leu Asn Ser Arg Phe Ala Ala Phe Ile Asp Lys Val Arg Phe Leu Glu
 115 120 125
 Gln Gln Asn Lys Leu Leu Glu Thr Lys Leu Gln Phe Tyr Gln Asn Arg
 130 135 140
 Glu Cys Cys Gln Ser Asn Leu Glu Pro Leu Phe Glu Gly Tyr Ile Glu
 145 150 155 160
 Thr Leu Arg Arg Glu Ala Glu Cys Val Glu Ala Asp Ser Gly Arg Leu
 165 170 175
 Ala Ser Glu Leu Asn His Val Gln Glu Val Leu Glu Gly Tyr Lys Lys
 180 185 190
 Lys Tyr Glu Glu Glu Val Ser Leu Arg Ala Thr Ala Glu Asn Glu Phe
 195 200 205
 Val Ala Leu Lys Lys Asp Val Asp Cys Ala Tyr Leu Arg Lys Ser Asp
 210 215 220
 Leu Glu Ala Asn Val Glu Ala Leu Ile Gln Glu Ile Asp Phe Leu Arg
 225 230 235 240
 Arg Leu Tyr Glu Glu Glu Ile Arg Ile Leu Gln Ser His Ile Ser Asp
 245 250 255
 Thr Ser Val Val Val Lys Leu Asp Asn Ser Arg Asp Leu Asn Met Asp
 260 265 270
 Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val Thr Arg
 275 280 285
 Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu Glu Met
 290 295 300
 Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr Lys Glu
 305 310 315 320
 Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala Glu Val
 325 330 335
 Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val Ala Gln
 340 345 350
 Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys Lys Leu
 355 360 365
 Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met Ala Cys
 370 375 380
 Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly Leu Asp
 385 390 395 400
 Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu Gln Arg
 405 410 415
 Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser Ser Arg
 420 425 430
 Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg Pro Val
 435 440 445
 Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala Val Ser
 450 455 460
 Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys Gly Gly
 465 470 475 480
 Gly Ser Cys Gly Val Gly Ser Cys Gly Ile Ser Ser Leu Gly Val Gly
 485 490 495
 Ser Cys Gly Ser Ser Cys Arg Lys Cys
 500 505

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<210> 486
 <211> 827
 <212> DNA
 <213> Homo sapiens

<400> 486
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 gcagccgggc cgaggccgag tcttggtacc gcagcaagtg tgaggagatg aaggccacgg 180
 tgatcaggca cggggagacc ctgcgccgca ccaaggagga gatcaatgag ctgaaccgca 240
 tgatccaaag gctgacggcc gaggtggaga atgccaaagt ccagaactcc aagctggagg 300
 ccgcggtggc ccagtctgag cagcagggtg aggcagccct cagtgatgcc cgctgcaagc 360
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 agtaccagga ggtgatgaac tccaagctgg gcctggacat cgagatcgcc acctacaggc 480
 gcctgctgga gggcgaggag cagaggctat gtgaaggcat tggggctgtg aatgtctgtg 540
 tcagcagctc ccggggcggg gtcgtgtgca acggaacgt ggcggtgagc accggcctgt 600
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 gtggtatcag ctccctgggt gtggggtctt gcggcagcag ctgccgaaa tgtaggcac 780
 cccaactcaa gtcccaggcc ccaggcatct ttctgcctt gccttgc 827

<210> 487
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 487
 Met Asp Cys Ile Ile Ala Glu Ile Lys Ala Gln Tyr Asp Asp Ile Val
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 Thr Arg Ser Arg Ala Glu Ala Glu Ser Trp Tyr Arg Ser Lys Cys Glu
 20 25 30
 Glu Met Lys Ala Thr Val Ile Arg His Gly Glu Thr Leu Arg Arg Thr
 35 40 45
 Lys Glu Glu Ile Asn Glu Leu Asn Arg Met Ile Gln Arg Leu Thr Ala
 50 55 60
 Glu Val Glu Asn Ala Lys Cys Gln Asn Ser Lys Leu Glu Ala Ala Val
 65 70 75 80
 Ala Gln Ser Glu Gln Gln Gly Glu Ala Ala Leu Ser Asp Ala Arg Cys
 85 90 95
 Lys Leu Ala Glu Leu Glu Gly Ala Leu Gln Lys Ala Lys Gln Asp Met
 100 105 110
 Ala Cys Leu Ile Arg Glu Tyr Gln Glu Val Met Asn Ser Lys Leu Gly
 115 120 125
 Leu Asp Ile Glu Ile Ala Thr Tyr Arg Arg Leu Leu Glu Gly Glu Glu
 130 135 140
 Gln Arg Leu Cys Glu Gly Ile Gly Ala Val Asn Val Cys Val Ser Ser
 145 150 155 160
 Ser Arg Gly Gly Val Val Cys Gly Asp Leu Cys Val Ser Gly Ser Arg
 165 170 175
 Pro Val Thr Gly Ser Val Cys Ser Ala Pro Cys Asn Gly Asn Val Ala
 180 185 190
 Val Ser Thr Gly Leu Cys Ala Pro Cys Gly Gln Leu Asn Thr Thr Cys

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	195		200		205
Gly	Gly Ser Cys Gly Val Gly Ser Cys Gly	Ile	Ser Ser Leu Gly		
210		215		220	
Val	Gly Ser Cys Gly Ser Ser Cys Arg Lys Cys				
225		230		235	

<210> 488
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 488
 Ser Leu Thr Lys Arg Ala Ser Gln Tyr
 1 5

<210> 489
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 489
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27

<210> 490
 <211> 3288
 <212> DNA
 <213> Homo sapiens

<400> 490
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<210> 491

<211> 2232

<212> DNA

<213> Homo sapiens

<400> 491

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gaatacaaaag aacttcttca agagttcata gacgacaatg ccactacaaa tgccatagat 180
gaattgaagg aatgttttct taaccaaacg gatgaaactc tgagcaatgt tgaggtgttt 240
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tctgagaaat ttacgtgggc agcaaaagga agacctagga agatcgcatg ggagaaaaaa 360
gaaacacctg taaagactgg atgctgtggc agagtaacat ctaataaaaac taaagttttg 420
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<211> 1233
<212> DNA
<213> Homo sapiens

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gaattgaagg aatgttttct taaccaaacg gatgaaactc tgagcaatgt tgagggtgtt 240
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<210> 493
<211> 1095

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> 403, 522, 615

<223> Xaa = Any Amino Acid

<400> 493

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Phe Ile Asp Asp Asn Ala Thr Asn Ala Ile Asp Glu Leu Lys Glu
      50          55          60
Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu Ser Asn Val Glu Val Phe
      65          70          75          80
Met Gln Leu Ile Tyr Asp Ser Ser Leu Cys Asp Leu Phe Met Ser Pro
      85          90          95
Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro
      100          105          110
Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys
      115          120          125
Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg
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Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser
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Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu
      165          170          175
Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile
      180          185          190
Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn
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Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe Lys Pro Ala
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Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu Leu Lys Asn
      225          230          235          240
Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu Ser Lys Gln
      245          250          255
Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr
      260          265          270
Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu
      275          280          285
Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn Lys Asp Gly
      290          295          300
Leu Leu Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala
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Leu Glu Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys
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Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn
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Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile

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 405 410 415
 Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys
 420 425 430
 Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe
 435 440 445
 Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu
 450 455 460
 Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln
 465 470 475 480
 Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp
 485 490 495
 Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
 500 505 510
 Gln Lys Asp Val Cys Leu Pro Lys Ala Xaa His Gln Lys Glu Ile Asp
 515 520 525
 Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu
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 Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 545 550 555 560
 Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser
 565 570 575
 Ala Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala
 580 585 590
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 595 600 605
 Ser Glu Ser Lys Gln Lys Xaa Val Glu Glu Asn Ser Trp Asp Ser Glu
 610 615 620
 Ser Leu Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala
 625 630 635 640
 Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser
 645 650 655
 Thr Ser Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala
 660 665 670
 Arg Glu Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu
 675 680 685
 Gln Met Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala
 690 695 700
 Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln
 705 710 715 720
 Glu Leu Cys Ser Val Arg Leu Thr Leu Asn Gln Glu Glu Glu Lys Arg
 725 730 735
 Arg Asn Ala Asp Ile Leu Asn Glu Lys Ile Arg Glu Glu Leu Gly Arg
 740 745 750
 Ile Glu Glu Gln His Arg Lys Glu Leu Glu Val Lys Gln Gln Leu Glu
 755 760 765
 Gln Ala Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu Ser Asn
 770 775 780
 Leu Asn Gln Val Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu His

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 Ala Thr Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu
 820 825 830
 Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met Thr Leu
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 Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly
 850 855 860
 Gln Leu Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys Leu
 865 870 875 880
 Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His
 885 890 895
 His Pro Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr
 900 905 910
 Ser Arg Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys
 915 920 925
 Leu Gln Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn
 930 935 940
 Glu Val Leu His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser
 945 950 955 960
 Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr
 965 970 975
 Leu Val Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln
 980 985 990
 Met Lys Glu Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val Asn
 995 1000 1005
 Lys His Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu
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 Gln Ser Lys Asn Met Trp Leu Gln Gln Gln Leu Val His Ala His Lys
 1025 1030 1035 1040
 Lys Ala Asp Asn Lys Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu
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<210> 494
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 <213> Homo sapiens

<220>
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 <222> 403, 522, 615
 <223> Xaa = Any Amino Acid

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 50 55 60
 Cys Phe Leu Asn Gln Thr Asp Glu Thr Leu Ser Asn Val Glu Val Phe
 65 70 75 80
 Met Gln Leu Ile Tyr Asp Ser Ser Leu Cys Asp Leu Phe Met Ser Pro
 85 90 95
 Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro
 100 105 110
 Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys
 115 120 125
 Val Ala Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg
 130 135 140
 Ser Lys Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser
 145 150 155 160
 Ala Asn Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu
 165 170 175
 Glu Tyr Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile
 180 185 190
 Gln Val Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn
 195 200 205
 Arg Glu Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe Lys Pro Ala
 210 215 220
 Ile Glu Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu Leu Lys Asn
 225 230 235 240
 Glu Gln Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu Ser Lys Gln
 245 250 255
 Lys Asp Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr
 260 265 270
 Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu
 275 280 285
 Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn Lys Asp Gly
 290 295 300
 Leu Leu Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala
 305 310 315 320
 Leu Glu Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys
 325 330 335
 Pro Ser Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn
 340 345 350
 Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile
 355 360 365
 Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp
 370 375 380
 Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro
 385 390 395 400
 Lys Ala Xaa His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu
 405 410 415
 Gly Ser Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys
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 Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe
 435 440 445

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Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu
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Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln
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Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp
485 490 495
Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
500 505 510
Gln Lys Asp Val Cys Leu Pro Lys Ala Xaa His Gln Lys Glu Ile Asp
515 520 525
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Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
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565 570 575
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580 585 590
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595 600 605
Ser Glu Ser Lys Gln Lys Xaa Val Glu Glu Asn Ser Trp Asp Ser Glu
610 615 620
Ser Leu Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala
625 630 635 640
Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser
645 650 655
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660 665 670
Arg Glu Leu Gln Lys Asp His Cys Glu Gln Arg Thr Gly Lys Met Glu
675 680 685
Gln Met Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala
690 695 700
Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln
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Ser Tyr Met Lys Ile Ala Cys
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<210> 495
<211> 410
<212> PRT
<213> Homo sapiens

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35 40 45
Phe Ile Asp Asp Asn Ala Thr Thr Asn Ala Ile Asp Glu Leu Lys Glu
50 55 60

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Arg	Ala	Leu	Gln	Cys	Glu	Val	Ser	His	Thr	His	Glu	Asn	Glu	Asn	Tyr
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Leu	Leu	His	Glu	Asn	Cys	Met	Leu	Lys	Lys	Glu	Ile	Ala	Met	Leu	Lys
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Leu	Glu	Ile	Ala	Thr	Leu	Lys	His	Gln	Tyr	Gln	Glu	Lys	Glu	Asn	Lys
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Tyr	Phe	Glu	Asp	Ile	Lys	Ile	Leu	Lys	Glu	Lys	Asn	Ala	Glu	Leu	Gln
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Tyr	Ser	Gly	Gln	Leu	Lys	Val	Leu	Ile	Ala	Glu	Asn	Thr	Met	Leu	Thr
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Ser	Lys	Leu	Lys	Glu	Lys	Gln	Asp	Lys	Glu	Ile	Leu	Glu	Ala	Glu	Ile
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Glu	Ser	His	His	Pro	Arg	Leu	Ala	Ser	Ala	Val	Gln	Asp	His	Asp	Gln
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Ile	Val	Thr	Ser	Arg	Lys	Ser	Gln	Glu	Pro	Ala	Phe	His	Ile	Ala	Gly
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Asp	Ala	Cys	Leu	Gln	Arg	Lys	Met	Asn	Val	Asp	Val	Ser	Ser	Thr	Ile
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Tyr	Asn	Asn	Glu	Val	Leu	His	Gln	Pro	Leu	Ser	Glu	Ala	Gln	Arg	Lys
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Gln	Cys	Gln	Met	Lys	Glu	Ala	Glu	His	Met	Tyr	Gln	Asn	Glu	Gln	Asp
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Asn	Val	Asn	Lys	His	Thr	Glu	Gln	Gln	Glu	Ser	Leu	Asp	Gln	Lys	Leu
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Phe	Gln	Leu	Gln	Ser	Lys	Asn	Met	Trp	Leu	Gln	Gln	Gln	Leu	Val	His
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Ala	His	Lys	Lys	Ala	Asp	Asn	Lys	Ser	Lys	Ile	Thr	Ile	Asp	Ile	His
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Glu	Ile	Phe	Asn	Tyr	Asn	Asn	His	Leu	Lys	Asn	Arg	Ile	Tyr	Gln	Tyr
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 <212> PRT
 <213> Homo sapiens

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 <212> PRT
 <213> Homo sapiens

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<210> 503
 <211> 93
 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Phe Ile Asp Asp Asn Ala Thr Thr Asn Ala Ile Asp Glu Leu Lys Glu
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<210> 504
 <211> 1964
 <212> DNA
 <213> Homo sapiens

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1007662202007


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ctcccagccc ctccagaagc ccaccccact tctcgccaac ccccgatctc taaatgaggc 1620
ctgagcgtca ccctagtctt gccccttttt agctgtgtag acttggaaga gacatttgac 1680
ttccctttct ccttgtctat aaaatgtgga cagtggacgt ctgtcaccca agagagttgt 1740
gggagacaag atcacagcta tgagcacctc gcacgggtgtc caggatgcac agcacaatcc 1800
atgatgcgtt ttctcccctt acgcactttg aaacccatgc tagaaaagtg aatacatctg 1860
actgtgctcc actccaacct ccagcctgga tgtccctgtc tgggcccctt ttctgttttt 1920
tattctatgt tcagcaccac tggcaccaaa tacattttaa ttca 1964

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<210> 505
 <211> 732
 <212> DNA
 <213> Homo sapiens

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<400> 505
atgcacaact acctgtttct ggcggggggc atccgtggct ccggtgccaa ggccgtctgc 60
tccaacgagg tcttctgcta caacctctg accaacadct ggagccaggt tcggcccatg 120
cagcaggccc gagcccagct caagctggtg gccctggacg ggctgctcta tgccatcggt 180
ggcgaatgcc tgtacagcat ggagtgttac gaccgcgcaa cagacgcctg gacccacgc 240
gcgccactcc ccgcaggcac cttccctgtg gccacagagg ctgtggcctg ccgtggggac 300
atctacgtca ccgggggtca cctctttctac cgctgtctca ggtacagccc cgtgaaggat 360
gcttgggaag agtgcccata cagtgccagc caccggcggt ccagcgacat cgttgactg 420
gggggcttcc tgtaccgctt cgacctgctg cggggcggtg gcgcgcgct gatgcgctac 480
aacacagtga ccggctcctg gagcagggtt gctcctctgc cctgcccgc ccccgcccca 540
ctgcgtgca ccacctggg caacaccatt tactcctca accccagggt cactgccacc 600
ttcacggtct ctggggggac tgcccagttc caggccaagg agctgcagcc cttccccttg 660
gggagcaccg ggttcctcag tccattcatc ctgactctgc cccctgagga ccggtgcag 720
acctcactct ga 732

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<210> 506
 <211> 729
 <212> DNA
 <213> Homo sapiens

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<400> 506
atgcacaact acctgtttct ggcggggggc atccgtggct ccggtgccaa ggccgtctgc 60
tccaacgagg tcttctgcta caacctctg accaacadct ggagccaggt tcggcccatg 120
cagcaggccc gagcccagct caagctggtg gccctggacg ggctgctcta tgccatcggt 180
ggcgaatgcc tgtacagcat ggagtgttac gaccgcgcaa cagacgcctg gacccacgc 240
gcgccactcc ccgcaggcac cttccctgtg gccacagagg ctgtggcctg ccgtggggac 300
atctacgtca ccgggggtca cctctttctac cgctgtctca ggtacagccc cgtgaaggat 360
gcttgggaag agtgcccata cagtgccagc caccggcggt ccagcgacat cgttgactg 420
gggggcttcc tgtaccgctt cgacctgctg cggggcggtg gcgcgcgct gatgcgctac 480

```

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aacacagtga ccggtccttg gagcagggct gcctccctgc ccctgccgc ccccgcccca 540
ctgcgctgca ccaccctggg caacaccatt tactgcctca acccccaggt cactgccacc 600
ttcacgggtct ctgggggggac tgcccagttc caggccaagg agctgcagcc cttcccccttg 660
gggagcaccg gggtcctcag tccattcatc ctgactctgc cccctgagga ccggtgcag 720
acctcactc 729

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<210> 507
<211> 243
<212> PRT
<213> Homo sapiens

```

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<400> 507
Met His Asn Tyr Leu Phe Leu Ala Gly Gly Ile Arg Gly Ser Gly Ala
 1      5      10      15
Lys Ala Val Cys Ser Asn Glu Val Phe Cys Tyr Asn Pro Leu Thr Asn
      20      25      30
Ile Trp Ser Gln Val Arg Pro Met Gln Gln Ala Arg Ala Gln Leu Lys
      35      40      45
Leu Val Ala Leu Asp Gly Leu Tyr Ala Ile Gly Gly Glu Cys Leu
      50      55      60
Tyr Ser Met Glu Cys Tyr Asp Pro Arg Thr Asp Ala Trp Thr Pro Arg
      65      70      75      80
Ala Pro Leu Pro Ala Gly Thr Phe Pro Val Ala His Glu Ala Val Ala
      85      90      95
Cys Arg Gly Asp Ile Tyr Val Thr Gly Gly His Leu Phe Tyr Arg Leu
      100     105     110
Leu Arg Tyr Ser Pro Val Lys Asp Ala Trp Asp Glu Cys Pro Tyr Ser
      115     120     125
Ala Ser His Arg Arg Ser Ser Asp Ile Val Ala Leu Gly Gly Phe Leu
      130     135     140
Tyr Arg Phe Asp Leu Leu Arg Gly Val Gly Ala Ala Val Met Arg Tyr
      145     150     155     160
Asn Thr Val Thr Gly Ser Trp Ser Arg Ala Ala Ser Leu Pro Leu Pro
      165     170     175
Ala Pro Ala Pro Leu Arg Cys Thr Thr Leu Gly Asn Thr Ile Tyr Cys
      180     185     190
Leu Asn Pro Gln Val Thr Ala Thr Phe Thr Val Ser Gly Gly Thr Ala
      195     200     205
Gln Phe Gln Ala Lys Glu Leu Gln Pro Phe Pro Leu Gly Ser Thr Gly
      210     215     220
Val Leu Ser Pro Phe Ile Leu Thr Leu Pro Pro Glu Asp Arg Leu Gln
      225     230     235     240
Thr Ser Leu

```

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<210> 508
<211> 158
<212> PRT
<213> Homo sapiens

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<400> 508
Met His Asn Tyr Leu Phe Leu Ala Gly Gly Ile Arg Gly Ser Gly Ala
 1      5      10      15

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20250720 22:29:40

Lys Ala Val Cys Ser Asn Glu Val Phe Cys Tyr Asn Pro Leu Thr Asn
 20 25 30
 Ile Trp Ser Gln Val Arg Pro Met Gln Gln Ala Arg Ala Gln Leu Lys
 35 40 45
 Leu Val Ala Leu Asp Gly Leu Leu Tyr Ala Ile Gly Gly Glu Cys Leu
 50 55 60
 Tyr Ser Met Glu Cys Tyr Asp Pro Arg Thr Asp Ala Trp Thr Pro Arg
 65 70 75 80
 Ala Pro Leu Pro Ala Gly Thr Phe Pro Val Ala His Glu Ala Val Ala
 85 90 95
 Cys Arg Gly Asp Ile Tyr Val Thr Gly Gly His Leu Phe Tyr Arg Leu
 100 105 110
 Leu Arg Tyr Ser Pro Val Lys Asp Ala Trp Asp Glu Cys Pro Tyr Ser
 115 120 125
 Ala Ser His Arg Arg Ser Ser Asp Ile Val Ala Leu Gly Gly Phe Leu
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 145 150 155

<210> 509
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 509
 Arg Tyr Asn Thr Val Thr Gly Ser Trp Ser Arg Ala Ala Ser Leu Pro
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 20 25 30
 Tyr Cys Leu Asn Pro Gln Val Thr Ala Thr Phe Thr Val Ser Gly Gly
 35 40 45
 Thr Ala Gln Phe Gln Ala Lys Glu Leu Gln Pro Phe Pro Leu Gly Ser
 50 55 60
 Thr Gly Val Leu Ser Pro Phe Ile Leu Thr Leu Pro Pro Glu Asp Arg
 65 70 75 80
 Leu Gln Thr Ser Leu
 85

<210> 510
 <211> 732
 <212> DNA
 <213> Homo sapiens

<400> 510
 atgcgacccc agggccccgc cgccctccccg cagcggtctcc gcggcctcct gctgctcctg 60
 ctgctgcagc tgcccgcgccc gtcgagcgcc tctgagatcc ccaaggggaa gcaaaaggcg 120
 cagctccggc agagggagggt ggtggacctg tataatggaa tgtgcttaca agggccagca 180
 ggagtgcctg gtcgagacgg gagccctggg gccaatgtta ttccgggtac acctgggatc 240
 ccaggtcggg atggattcaa aggagaaaag ggggaatgtc tgagggaaaag ctttgaggag 300
 tcctggacac ccaactacaa gcagtgttca tggagttcat tgaattatgg catagatctt 360
 gggaaaattg cggagtgtac atttacaag atgcgttcaa atagtgtct aagagttttg 420
 ttcagtggtc cacttcggct aaaatgcaga aatgcagtgt gtcagcggtg gtatttcaca 480

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ttcaatggag ctgaatgttc aggacctctt cccattgaag ctataattta tttggaccaa 540
ggaagccctg aaatgaattc aacaattaat attcatcgca cttcttctgt ggaaggactt 600
tgtgaaggaa ttggtgctgg attagtggat gttgctatct gggttggcac ttgttcagat 660
taccctaaaag gagatgcttc tactggatgg aattcagttt ctcgcatcat tattgaagaa 720
ctaccctaaaat aa 732

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<210> 511
<211> 729
<212> DNA
<213> Homo sapiens

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<400> 511
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cagctccggc agaggagggt ggtggacctg tataatggaa tgtgcttaca agggccagca 180
ggagtgcctg gtcgagacgg gagccctggg gccaatgtta ttccgggtac acctgggatc 240
ccaggtcggg atggattcaa aggagaaaag ggggaatgtc tgagggaaaag ctttgaggag 300
tcctggacac ccaactacaa gcagtgttca tggagtccat tgaattatgg catagatctt 360
gggaaaattg cggagtgtac atttacaagg atgcgttcaa atagtgtctt aagagttttg 420
ttcagtggct cacttcggct aaaatgcaga aatgcattgt gtcagcgttg gtatttcaca 480
ttcaatggag ctgaatgttc aggacctctt cccattgaag ctataattta tttggaccaa 540
ggaagccctg aaatgaattc aacaattaat attcatcgca cttcttctgt ggaaggactt 600
tgtgaaggaa ttggtgctgg attagtggat gttgctatct gggttggcac ttgttcagat 660
taccctaaaag gagatgcttc tactggatgg aattcagttt ctcgcatcat tattgaagaa 720
ctaccctaaa 729

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<210> 512
<211> 837
<212> DNA
<213> Homo sapiens

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<400> 512
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cccgcgcct cccgcgacgc gctccgcggc ctctgctgc tcctgctgct gcagctgccc 180
gcgcgcgtga gcgcctctga gatccccaag gggaagcaaa aggcgcagct ccggcagagg 240
gaggtgggtg acctgtataa tggaatgtgc ttacaagggc cagcaggagt gcctgggtga 300
gacgggagcg ctggggccaa tgttattccg ggtacacctg ggatcccagg tcgggatgga 360
ttcaaaggag aaaaggggga atgtctgagg gaaagctttg aggagtcctg gacacccaac 420
tacaagcagt gttcatggag ttcatgaat tatggcatag atcttgggaa aattgcggag 480
tgtacattta caaagatgcg ttcaaatagt gctctaagag ttttggttcag tggctcactt 540
cggctaaaat gcagaaatgc atgctgtcag cggttggtatt tcacattcaa tggagctgaa 600
tggttcaggac ctcttcccat tgaagctata atttatttgg accaaggaag cctgaaatg 660
aattcaacaa ttaatatcca tcgcacttct tctgtggaag gactttgtga aggaattggt 720
gctggattag tggatgttgc tatctgggtt ggcacttggt cagattacc aaagggagat 780
gcttctactg gatggaattc agtttctcgc atcattattg aagaactacc aaaataa 837

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<210> 513
<211> 837
<212> DNA
<213> Homo sapiens

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<400> 513
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ggtctcctcc gcctccagct ccgcgctgcc cggcagccgg gagccatgcg accccagggc 120
 cccgcgcgct ccccgagcg gctccgcggc ctctgctgc tctgctgct gcagctgccc 180
 gcgcccgtcga gcgcctctga gatccccaaag gggaagcaaa aggcgcagct ccggcagagg 240
 gaggtggtgg acctgtataa tggaatgtgc ttacaagggc cagcaggagt gcctggctga 300
 gacgggagcc ctggggccaa tgttattccg ggtacacctg ggatcccagg tcgggatgga 360
 ttcaaaggag aaaaggggga atgtctgagg gaaagctttg aggagtcctg gacacccaac 420
 tacaagcagt gttcatggag ttcatatgaat tatggcatag atcttgggaa aattgcggag 480
 tgtacattta caaagatgcg ttcaaatagt gctctaagag ttttggtcag tggctcactt 540
 cggctaaaat gcagaaatgc atgctgtcag cgttggtatt tcacattcaa tggagctgaa 600
 tgttcaggac ctcttcccat tgaagctata atttatttgg accaaggaag ccctgaaatg 660
 aattcaacaa ttaatatcca tcgcacttct tctgtggaag gactttgtga aggaattggt 720
 gctggattag tggatgttgc tatctgggtt ggcacttggt cagattaccc aaaaggagat 780
 gcttctactg gatggaattc agtttctcgc atcattattg aagaactacc aaaataa 837

<210> 514
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 514
 Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Glu
 20 25 30
 Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Val
 35 40 45
 Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly
 50 55 60
 Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr Pro Gly Ile
 65 70 75 80
 Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu
 85 90 95
 Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser
 100 105 110
 Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe
 115 120 125
 Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser
 130 135 140
 Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr
 145 150 155 160
 Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile
 165 170 175
 Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His
 180 185 190
 Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly Leu
 195 200 205
 Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys Gly
 210 215 220
 Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile Ile Glu Glu
 225 230 235 240
 Leu Pro Lys

<210> 515

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<211> 278
 <212> PRT
 <213> Homo sapiens

<400> 515

Met Gln Pro Ala Ala Ala Ser Glu Arg Gly Gly Ala Asp Ala Asp His
 5 10 15
 Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln
 20 25 30
 Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu
 35 40 45
 Arg Gly Leu Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser
 50 55 60
 Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg
 65 70 75 80
 Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly
 85 90 95
 Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr
 100 105 110
 Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys
 115 120 125
 Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys
 130 135 140
 Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu
 145 150 155 160
 Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe
 165 170 175
 Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp
 180 185 190
 Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu
 195 200 205
 Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile
 210 215 220
 Asn Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly
 225 230 235 240
 Ala Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr
 245 250 255
 Pro Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile
 260 265 270
 Ile Glu Glu Leu Pro Lys
 275

<210> 516
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 516

Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu Arg Gly Leu
 5 10 15
 Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser Ala Ser Glu
 20 25 30
 Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg Glu Val Val

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      35              40              45
Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro Gly
  50              55              60
Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr Pro Gly Ile
  65              70              75              80
Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg Glu
      85              90              95
Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp Ser
      100              105              110
Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr Phe
      115              120              125
Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly Ser
      130              135              140
Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe Thr
  145              150              155              160
Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile Ile
      165              170              175
Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile Asn Ile His
      180              185              190
Arg Thr Ser Ser Val
      195

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<210> 517
<211> 232
<212> PRT
<213> Homo sapiens

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<400> 517
Met Gln Pro Ala Ala Ala Ser Glu Arg Gly Gly Ala Asp Ala Asp His
      5              10              15
Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln
      20              25              30
Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu
      35              40              45
Arg Gly Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser
      50              55              60
Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg
      65              70              75              80
Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly
      85              90              95
Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Val Ile Pro Gly Thr
      100              105              110
Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys
      115              120              125
Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys
      130              135              140
Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu
  145              150              155              160
Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe
      165              170              175
Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp
      180              185              190
Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu

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<210> 518
<211> 46
<212> PRT
<213> Homo sapiens
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<210> 519
<211> 26
<212> PRT
<213> Homo sapiens
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<210> 520
<211> 60
<212> DNA
<213> Homo sapiens
```

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<210> 521
<211> 60
<212> DNA
<213> Homo sapiens
```

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<210> 522
<211> 60
<212> DNA
<213> Homo sapiens
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<400> 522
gacaacaaaa gcaagataac aattgatatt cattttcttg agaggaaaat gcaacatcat 60

<210> 523
<211> 60
<212> DNA
<213> Homo sapiens

<400> 523
aaaaatatgt ggcttcaaca gcaattagtt catgcacata agaaagctga caacaaaagc 60

<210> 524
<211> 63
<212> DNA
<213> Homo sapiens

<400> 524
gatcagaaat tatttcaact acaaagcaaa aatatgtggc ttcaacagca attagttcat 60
gca 63

<210> 525
<211> 60
<212> DNA
<213> Homo sapiens

<400> 525
actgaacagc aggagtctct agatcagaaa ttatttcaac taaaagcaa aaatatgtgg 60

<210> 526
<211> 63
<212> DNA
<213> Homo sapiens

<400> 526
gctcaaagga aatccaaaag cctaaaaatt aatctcaatt atgccggaga tgctctaaga 60
gaa 63

<210> 527
<211> 60
<212> DNA
<213> Homo sapiens

<400> 527
agtagatat ataacaatga ggtgctccat caaccacttt ctgaagctca aaggaaatcc 60

<210> 528
<211> 60
<212> DNA
<213> Homo sapiens

<400> 528
agaaaaatga atgttgatgt gagtagtacg atatataaca atgaggtgct ccatcaacca 60

<210> 529

<211> 60
 <212> DNA
 <213> Homo sapiens

<400> 529
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<210> 530
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 530
 aaaagtcaag aacctgcttt ccacattgca ggagatgctt gtttgcaaag aaaaatgaat 60

<210> 531
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 531
 gaaaataaat actttgagga cattaagatt ttaaaagaaa agaatgctga acttcagatg 60

<210> 532
 <211> 60
 <212> DNA
 <213> Homo sapiens

<400> 532
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<210> 533
 <211> 63
 <212> DNA
 <213> Homo sapiens

<400> 533
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 caa 63

<210> 534
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 534
 Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu Ile Ala
 5 10 15
 Thr Leu Lys His Gln
 20

<210> 535
 <211> 20

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<212> PRT

<213> Homo sapiens

<400> 535

Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile
 5 10 15
 Lys Ile Leu Lys
 20

<210> 536

<211> 20

<212> PRT

<213> Homo sapiens

<400> 536

Glu Asn Lys Tyr Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala
 5 10 15
 Glu Leu Gln Met
 20

<210> 537

<211> 20

<212> PRT

<213> Homo sapiens

<400> 537

Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln
 5 10 15
 Arg Lys Met Asn
 20

<210> 538

<211> 20

<212> PRT

<213> Homo sapiens

<400> 538

Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser
 5 10 15
 Ser Thr Ile Tyr
 20

<210> 539

<211> 20

<212> PRT

<213> Homo sapiens

<400> 539

Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val
 5 10 15

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Leu His Gln Pro
20

<210> 540
<211> 20
<212> PRT
<213> Homo sapiens

<400> 540
Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
5 10 15
Gln Arg Lys Ser
20

<210> 541
<211> 21
<212> PRT
<213> Homo sapiens

<400> 541
Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly
5 10 15
Asp Ala Leu Arg Glu
20

<210> 542
<211> 20
<212> PRT
<213> Homo sapiens

<400> 542
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5 10 15
Lys Asn Met Trp
20

<210> 543
<211> 21
<212> PRT
<213> Homo sapiens

<400> 543
Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys Asn Met Trp Leu Gln Gln
5 10 15
Gln Leu Val His Ala
20

<210> 544
<211> 20

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<400> 548
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ggaagatcta agatgattgc atgtcctaca aaagaatcat ctacaaaagc aagtgccaat 240
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<210> 549
 <211> 1953
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 985

<223> n = A,T,C or G

<400> 549

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<210> 550

<211> 978

<212> DNA

<213> Homo sapiens

<400> 550

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gaacagcagg agtctctaga tcagaaatta tttcaactac aaagcaaaaa tatgtggctt 780
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<210> 551
<211> 324
<212> PRT
<213> Homo sapiens

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              35              40              45

Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr Phe Glu Asp Ile Lys
              50              55              60

Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met Thr Leu Lys Leu Lys
              65              70              75              80

Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu Lys
              85              90              95

Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu Lys
              100             105             110

Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro Arg
              115             120             125

Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg Lys
              130             135             140

Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln Arg
              145             150             155             160

Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val Leu
              165             170             175

His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile
              180             185             190

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Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val Ser
195 200 205

Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys Glu
210 215 220

Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val Asn Lys His Thr
225 230 235 240

Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser Lys
245 250 255

Asn Met Trp Leu Gln Gln Gln Leu Val His Ala His Lys Lys Ala Asp
260 265 270

Asn Lys Ser Lys Ile Thr Ile Asp Ile His Phe Leu Glu Arg Lys Met
275 280 285

Gln His His Leu Leu Lys Glu Lys Asn Glu Glu Ile Phe Asn Tyr Asn
290 295 300

Asn His Leu Lys Asn Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu
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Thr Glu Val Ile

<210> 552

<211> 661

<212> PRT

<213> Homo sapiens

<400> 552

Met Gln His His His His His His Val Gly Ser Met Ser Pro Ala Lys
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Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys Val Ala
35 40 45

Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg Ser Lys
50 55 60

Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser Ala Asn
65 70 75 80

Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu Glu Tyr
85 90 95

Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile Gln Val
100 105 110

10076622.021302

Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn Arg Glu
 115 120 125
 Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe Lys Pro Ala Ile Glu
 130 135 140
 Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu Leu Lys Asn Glu Gln
 145 150 155 160
 Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu Ser Lys Gln Lys Asp
 165 170 175
 Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
 180 185 190
 Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu Ile Asp
 195 200 205
 Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn Lys Asp Gly Leu Leu
 210 215 220
 Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 225 230 235 240
 Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys Pro Ser
 245 250 255
 Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn Lys Ala
 260 265 270
 Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro
 275 280 285
 Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Thr Glu
 290 295 300
 Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala
 305 310 315 320
 Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser
 325 330 335
 Pro Gly Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser
 340 345 350
 Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala
 355 360 365
 Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln
 370 375 380
 Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu
 385 390 395 400

100
 200
 300
 400
 500
 600
 700
 800
 900
 1000

Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu
 405 410 415
 Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys
 420 425 430
 Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile
 435 440 445
 Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu Lys Ser
 450 455 460
 Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met
 465 470 475 480
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 485 490 495
 Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu
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 Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu
 515 520 525
 Ser Lys Gln Lys Asn Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
 530 535 540
 Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His
 545 550 555 560
 Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu Asp Ser Thr Ser
 565 570 575
 Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu Arg Ala Arg Glu
 580 585 590
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 595 600 605
 Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser Glu Ala Lys Glu
 610 615 620
 Ile Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp Glu Gln Glu Leu
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<210> 553

<211> 1013

<212> PRT

<213> Homo sapiens

<400> 553

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          20          25          30

Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys Val Ala
          35          40          45

Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg Ser Lys
          50          55          60

Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser Ala Asn
          65          70          75          80

Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu Glu Tyr
          85          90          95

Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile Gln Val
          100          105          110

Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn Arg Glu
          115          120          125

Val Glu Glu Pro Pro Lys Lys Pro Ser Ala Phe Lys Pro Ala Ile Glu
          130          135          140

Met Gln Asn Ser Val Pro Asn Lys Ala Phe Glu Leu Lys Asn Glu Gln
          145          150          155          160

Thr Leu Arg Ala Asp Pro Met Phe Pro Pro Glu Ser Lys Gln Lys Asp
          165          170          175

Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
          180          185          190

Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu Ile Asp
          195          200          205

Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asn Lys Asp Gly Leu Leu
          210          215          220

Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
          225          230          235          240

Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys Pro Ser
          245          250          255

Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn Lys Ala

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10076662.021300

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Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Thr Glu		
290	295	300
Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala		
305	310	315
Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser		
	325	330
Pro Gly Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser		
	340	345
Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala		
	355	360
Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln		
	370	375
Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu		
385	390	395
Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu		
	405	410
Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys		
	420	425
Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys Ile		
	435	440
Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly Phe Leu Lys Ser		
	450	455
Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met		
465	470	475
Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala Phe		
	485	490
Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu		
	500	505
Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met Phe Pro Ser Glu		
	515	520
Ser Lys Gln Lys Asn Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu		
530	535	540
Arg Glu Thr Val Ser Gln Lys Asp Val Cys Val Pro Lys Ala Thr His		

835 840 845
 Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val
 850 855 860
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 865 870 875 880
 Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu Asn Thr Leu Val
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 Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys
 900 905 910
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 965 970 975
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<210> 554
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<220>
 <223> PCR primer

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25

<210> 555
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<223> PCR primer

<400> 555

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36

<210> 556

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<213> Artificial Sequence

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<223> PCR primer

<400> 556

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31

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<400> 557

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<212> DNA

<213> Artificial Sequence

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<223> PCR primer

<400> 558

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<210> 559

<211> 35

<212> DNA

<213> Artificial Sequence

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<223> PCR primer

<400> 559

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<400> 560
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<210> 561
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<220>
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<400> 563
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<210> 564
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 <212> DNA

<213> Homo sapiens

<400> 564

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Cys Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp
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Val Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu
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<212> PRT
<213> Homo sapiens

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Thr Phe Leu Val Asp Arg Lys Cys Gln Leu Asp Val Leu Asp Gly Glu
          35              40              45

His Arg Thr Pro Leu Met Lys Ala Leu Gln Cys His Gln Glu Ala Cys
          50              55              60

Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp Val
          65              70              75              80

Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu Ser
          85              90              95

Val Val Ala Lys Leu Leu Ser His Gly Ala Val Ile Glu Val His Asn
          100             105             110

Lys Ala Ser Leu Thr Pro Leu Leu Leu Ser Ile Thr Lys Arg Ser Glu
          115             120             125

Gln Ile Val Glu Phe Leu Leu Ile Lys Asn Ala Asn Ala Asn Ala Val
          130             135             140

Asn Lys Tyr Lys Cys Thr Ala Leu Met Leu Ala Val Cys His Gly Ser
          145             150             155             160

Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe Ala
          165             170             175

Ala Asp Ile Cys Gly Val Thr Ala Glu His Tyr Ala Val Thr Cys Gly
          180             185             190

Phe His His Ile His Glu Gln Ile Met Glu Tyr Ile Arg Lys Leu Ser
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Lys Asn His Gln Asn Thr Asn Pro Glu Gly Thr Ser Ala Gly Thr Pro
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 Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu Ser
 225 230 235 240
 Leu Val Glu Lys Thr Pro Asp Glu Ala Ala Pro Leu Val Glu Arg Thr
 245 250 255
 Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu Ala Ala
 260 265 270
 Ser Leu Val Glu Gly Thr Ser Asp Lys Ile Gln Cys Leu Glu Lys Ala
 275 280 285
 Thr Ser Gly Lys Phe Glu Gln Ser Ala Glu Glu Thr Pro Arg Glu Ile
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 Thr Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Pro Ala Lys
 305 310 315 320
 Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Asp Thr Pro Arg
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 Glu Ile Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala
 340 345 350
 Ala Lys Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr Pro
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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Met Glu Tyr Ile Arg Lys Leu Ser Lys Asn His Gln Asn Thr Asn Pro
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Glu Gly Thr Ser Ala Gly Thr Pro Asp Glu Ala Ala Pro Leu Ala Glu
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 Arg Thr Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu
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 Ala Ala Pro Leu Val Glu Arg Thr Pro Asp Thr Ala Glu Ser Leu Val
 100 105 110
 Glu Lys Thr Pro Asp Glu Ala Ala Ser Leu Val Glu Gly Thr Ser Asp
 115 120 125
 Lys Ile Gln Cys Leu Glu Lys Ala Thr Ser Gly Lys Phe Glu Gln Ser
 130 135 140
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 145 150 155 160
 Glu Lys Phe Thr Trp Pro Ala Lys Gly Arg Pro Arg Lys Ile Ala Trp
 165 170 175
 Glu Lys Lys Glu Asp Thr Pro Arg Glu Ile Met Ser Pro Ala Lys Glu
 180 185 190
 Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro Arg Lys Ile
 195 200 205
 Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys Val Ala Arg
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 Thr Phe Leu Val Asp Arg Lys Cys Gln Pro Asp Val Leu Asp Gly Glu
 35 40 45
 His Arg Thr Pro Leu Met Lys Ala Leu Gln Cys His Gln Glu Ala Cys

50	55	60
Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp Val		
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Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu Ser		
	85	90 95
Val Val Ala Lys Leu Leu Ser His Gly Ala Val Ile Glu Val His Asn		
	100	105 110
Lys Ala Ser Leu Thr Pro Leu Leu Leu Ser Ile Thr Lys Arg Ser Glu		
	115	120 125
Gln Ile Val Glu Phe Leu Leu Ile Lys Asn Ala Asn Ala Asn Ala Val		
	130	135 140
Asn Lys Tyr Lys Cys Thr Ala Leu Met Leu Ala Val Cys His Gly Leu		
	145	150 155 160
Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe Ala		
	165	170 175
Ala Asp Ile Cys Gly Val Thr Ala Glu His Tyr Ala Val Thr Cys Gly		
	180	185 190
Phe His His Ile His Glu Gln Ile Met Glu Tyr Ile Arg Lys Leu Ser		
	195	200 205
Lys Asn His Gln Asn Thr Asn Pro Glu Gly Thr Ser Ala Gly Thr Pro		
	210	215 220
Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu Ser		
	225	230 235 240
Leu Val Glu Lys Thr Pro Asp Glu Ala Ala Pro Leu Val Glu Arg Thr		
	245	250 255
Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu Ala Ala		
	260	265 270
Ser Leu Val Glu Gly Thr Ser Asp Lys Ile Gln Cys Leu Glu Lys Ala		
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Thr Ser Gly Lys Phe Glu Gln Ser Ala Glu Glu Thr Pro Arg Glu Ile		
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Thr Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Pro Ala Lys		
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Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Asp Thr Pro Arg		
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Glu Ile Met Ser Pro Ala Lys Glu Thr Ser Glu Lys Phe Thr Trp Ala		

Ala Glu His Tyr Ala Val Thr Cys Gly Phe His His Ile His Glu Gln
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 Pro Glu Gly Thr Ser Ala Gly Thr Pro Asp Glu Ala Ala Pro Leu Ala
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 Glu Arg Thr Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp
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 Glu Ala Ala Pro Leu Val Glu Arg Thr Pro Asp Thr Ala Glu Ser Leu
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 Val Glu Lys Thr Pro Asp Glu Ala Ala Ser Leu Val Glu Gly Thr Ser
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 Asp Lys Ile Gln Cys Leu Glu Lys Ala Thr Ser Gly Lys Phe Glu Gln
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 Ser Glu Lys Phe Thr Trp Pro Ala Lys Gly Arg Pro Arg Lys Ile Ala
 325 330 335
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 Glu Thr Ser Glu Lys Phe Thr Trp Ala Ala Lys Gly Arg Pro Arg Lys
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 Ile Ala Trp Glu Lys Lys Glu Thr Pro Val Lys Thr Gly Cys Val Ala
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 Arg Val Thr Ser Asn Lys Thr Lys Val Leu Glu Lys Gly Arg Ser Lys
 385 390 395 400
 Met Ile Ala Cys Pro Thr Lys Glu Ser Ser Thr Lys Ala Ser Ala Asn
 405 410 415
 Asp Gln Arg Phe Pro Ser Glu Ser Lys Gln Glu Glu Asp Glu Glu Tyr
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 Ser Cys Asp Ser Arg Ser Leu Phe Glu Ser Ser Ala Lys Ile Gln Val
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 Cys Ile Pro Glu Ser Ile Tyr Gln Lys Val Met Glu Ile Asn Arg Glu
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 Tyr Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser
 515 520 525
 Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu Ile Asp
 530 535 540
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 Lys Ala Thr Cys Gly Met Lys Val Ser Ile Pro Thr Lys Ala Leu Glu
 565 570 575
 Leu Lys Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Gly Lys Pro Ser
 580 585 590
 Ala Phe Glu Pro Ala Thr Glu Met Gln Lys Ser Val Pro Asn Lys Ala
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 Leu Glu Leu Lys Asn Glu Gln Thr Trp Arg Ala Asp Glu Ile Leu Pro
 610 615 620
 Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn Ser Trp Asp Thr Glu
 625 630 635 640
 Ser Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala
 645 650 655
 Ala His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Gly Ser
 660 665 670
 Pro Val Lys Asp Gly Leu Leu Lys Ala Asn Cys Gly Met Lys Val Ser
 675 680 685
 Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala
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 Glu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gln
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 Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr Val Ser Gln Lys
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 Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu
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 Ser Lys Gln Lys Lys Val Glu Glu Asn Ser Trp Asp Ser Glu Ser Leu
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 Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg
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 Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp Ala Cys Leu Gln
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<400> 577

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Gln Thr Val Glu Phe Leu Leu Thr Lys Asn Ala Asn Ala Asn Ala Phe
      35              40              45

Asn Glu Ser Lys Cys Thr Ala Leu Met Leu Ala Ile Cys Glu Gly Ser
      50              55              60

Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe Ala
      65              70              75              80

Glu Asp Ile His Gly Ile Thr Ala Glu Arg Tyr Ala Ala Ala Arg Gly
      85              90              95

Val Asn Tyr Ile His Gln Gln Leu Leu Glu His Ile Arg Lys Leu Pro
      100             105             110

Lys Asn Pro Gln Asn Thr Asn Pro Glu Gly Thr Ser Thr Gly Thr Pro
      115             120             125

Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu Ser
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Leu Leu Glu Lys Thr Pro Asp Glu Ala Ala Arg Leu Val Glu Gly Thr
      145             150             155             160

Ser Ala Lys Ile Gln Cys Leu Gly Lys Ala Thr Ser Gly Lys Phe Glu
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Gln Ser Thr Glu Glu Thr Pro Arg Lys Ile Leu Arg Pro Thr Lys Glu
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Ile Glu Asn Ser Gln Cys Thr Lys Val Glu Glu Asp Phe Asn Leu Ala
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 Ser Trp Asp Ser Gly Ser Leu Phe Glu Ser Ser Ala Lys Thr Gln Val
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 Cys Ile Pro Glu Ser Met Tyr Gln Lys Val Met Glu Ile Asn Arg Glu
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 405 410 415
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 740 745 750
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 755 760 765
 Met Gln Asn Ser Val Pro Asn Lys Gly Leu Glu Trp Lys Asn Lys Gln
 770 775 780
 Thr Leu Arg Ala Asp Ser Thr Thr Leu Ser Lys Ile Leu Asp Ala Leu
 785 790 795 800
 Pro Ser Cys Glu Arg Gly Arg Glu Leu Lys Lys Asp Asn Cys Glu Gln
 805 810 815
 Ile Thr Ala Lys Met Glu Gln Met Lys Asn Lys Phe Cys Val Leu Gln
 820 825 830
 Lys Glu Leu Ser Glu Ala Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln
 835 840 845
 Lys Ala Lys Trp Glu Gln Glu Leu Cys Ser Val Arg Leu Pro Leu Asn
 850 855 860

Gln Glu Glu Glu Lys Arg Arg Asn Val Asp Ile Leu Lys Glu Lys Ile
 865 870 875 880
 Arg Pro Glu Glu Gln Leu Arg Lys Lys Leu Glu Val Lys His Gln Leu
 885 890 895
 Glu Gln Thr Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Thr Ser
 900 905 910
 Asn Leu Asn Gln Val Ser His Thr His Glu Ser Glu Asn Asp Leu Phe
 915 920 925
 His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu Glu
 930 935 940
 Val Ala Thr Leu Lys His Gln His Gln Val Lys Glu Asn Lys Tyr Phe
 945 950 955 960
 Glu Asp Ile Lys Ile Leu Gln Glu Lys Asn Ala Glu Leu Gln Met Thr
 965 970 975
 Leu Lys Leu Lys Gln Lys Thr Val Thr Lys Arg Ala Ser Gln Tyr Arg
 980 985 990
 Glu Gln Leu Lys Val Leu Thr Ala Glu Asn Thr Met Leu Thr Ser Lys
 995 1000 1005
 Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Thr Glu Ile Glu Ser
 1010 1015 1020
 His His Pro Arg Leu Ala Ser Ala Leu Gln Asp His Asp Gln Ser Val
 1025 1030 1035 1040
 Thr Ser Arg Lys Asn Gln Glu Leu Ala Phe His Ser Ala Gly Asp Ala
 1045 1050 1055
 Pro Leu Gln Gly Ile Met Asn Val Asp Val Ser Asn Thr Ile Tyr Asn
 1060 1065 1070
 Asn Glu Val Leu His Gln Pro Leu Tyr Glu Ala Gln Arg Lys Ser Lys
 1075 1080 1085
 Ser Pro Lys Ile Asn Leu Asn Tyr Ala Gly Asp Asp Leu Arg Glu Asn
 1090 1095 1100
 Ala Leu Val Ser Glu His Ala Gln Arg Asp Arg Cys Glu Thr Gln Cys
 1105 1110 1115 1120
 Gln Met Lys Lys Ala Glu His Met Tyr Gln Asn Glu Gln Asp Asn Val
 1125 1130 1135
 Asp Lys His Thr Glu Gln Gln Glu Ser Leu Glu Gln Lys Leu Phe Gln
 1140 1145 1150

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Leu Glu Ser Lys Asn Arg Trp Leu Arg Gln Gln Leu Val Tyr Ala His
 1155 1160 1165

Lys Lys Val Asn Lys Ser Lys Val Thr Ile Asn Ile Gln Phe Pro Glu
 1170 1175 1180

Met Lys Met Gln Arg His Leu Lys Glu Lys Asn Glu Glu Val Phe Asn
 1185 1190 1195 1200

Tyr Gly Asn His Leu Lys Glu Arg Ile Asp Gln Tyr Glu Lys Glu Lys
 1205 1210 1215

Ala Glu Arg Glu Val Ser Ile Lys Lys Tyr Lys Tyr Phe Ser Asn Phe
 1220 1225 1230

Leu Lys Glu Ser Gly Leu Gly
 1235

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<400> 578
 Lys Asn Glu Glu Ile Phe Asn Tyr Asn Asn His Leu Lys Asn Arg Ile
 5 10 15

Tyr Gln Tyr Glu
 20

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<400> 579
 Glu Gln Asp Asn Val Asn Lys His Thr Glu Gln Gln Glu Ser Leu Asp
 5 10 15

Gln Lys Leu Phe
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 <213> Homo sapiens

<400> 580

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Thr Glu Gln Gln Glu Ser Leu Asp Gln Lys Leu Phe Gln Leu Gln Ser
 5 10 15

Lys Asn Met Trp
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<400> 581
 Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr Ser Gly Gln Leu
 5 10 15

Lys Val Leu Ile
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<210> 582
 <211> 20
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<400> 582
 Ile Ala Gly Asp Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser
 5 10 15

Ser Thr Ile Tyr
 20

<210> 583
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<400> 583
 Arg Lys Met Asn Val Asp Val Ser Ser Thr Ile Tyr Asn Asn Glu Val
 5 10 15

Leu His Gln Pro
 20

<210> 584
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 <213> Homo sapiens

<400> 584
 Met Gly Thr Arg Ala Leu Gln Cys Glu Val Ser His Thr His Glu Asn
 5 10 15

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Ala Glu Ile Glu

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20

<210> 589
 <211> 20
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<400> 589
 Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu Ser His His Pro
 5 10 15

Arg Leu Ala Ser
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<210> 590
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 590
 Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp
 5 10 15

His Asp Gln Ile
 20

<210> 591
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 591
 Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile Val Thr Ser Arg
 5 10 15

Lys Ser Gln Glu
 20

<210> 592
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 592
 His Asp Gln Ile Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His
 5 10 15

Ile Ala Gly Asp
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Arg Lys Met Asn
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<211> 20
<212> PRT
<213> Homo sapiens

<400> 594
Met Gly Thr Arg Ala Leu Gln Cys Glu Val Ser His Thr His Glu Asn
 1             5             10             15
Glu Asn Tyr Leu
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<210> 595
<211> 20
<212> PRT
<213> Homo sapiens
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Ser His Thr His Glu Asn Glu Asn Tyr Leu Leu His Glu Asn Cys Met
  1          5          10          15
Leu Lys Lys Glu
          20
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<210> 596
<211> 20
<212> PRT
<213> Homo sapiens
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<400> 596
Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu
 1          5          10          15
Glu Ile Ala Thr
          20
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<210>	597
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<213> Homo sapiens

<400> 597

Ile	Ala	Met	Leu	Lys	Leu	Glu	Ile	Ala	Thr	Leu	Lys	His	Gln	Tyr	Gln
1				5					10					15	
Glu	Lys	Glu	Asn												
			20												

<210> 598

<211> 20

<212> PRT

<213> Homo sapiens

<400> 598

Leu	Lys	His	Gln	Tyr	Gln	Glu	Lys	Glu	Asn	Lys	Tyr	Phe	Glu	Asp	Ile
1				5					10					15	
Lys	Ile	Leu	Lys												
			20												

<210> 599

<211> 20

<212> PRT

<213> Homo sapiens

<400> 599

Lys	Tyr	Phe	Glu	Asp	Ile	Lys	Ile	Leu	Lys	Glu	Lys	Asn	Ala	Glu	Leu
1				5					10					15	
Gln	Met	Thr	Leu												
			20												

<210> 600

<211> 20

<212> PRT

<213> Homo sapiens

<400> 600

Glu	Lys	Asn	Ala	Glu	Leu	Gln	Met	Thr	Leu	Lys	Leu	Lys	Glu	Glu	Ser
1				5					10					15	
Leu	Thr	Lys	Arg												
			20												

<210> 601

<211> 20

<212> PRT

<213> Homo sapiens

<400> 601

Lys	Leu	Lys	Glu	Glu	Ser	Leu	Thr	Lys	Arg	Ala	Ser	Gln	Tyr	Ser	Gly
1				5					10					15	
Gln	Leu	Lys	Val												

20

<210> 602

<211> 20

<212> PRT

<213> Homo sapiens

<400> 602

Ala Ser Gln Tyr Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr

1

5

10

15

Met Leu Thr Ser

20

<210> 603

<211> 20

<212> PRT

<213> Homo sapiens

<400> 603

Leu Ile Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu Lys Gln

1

5

10

15

Asp Lys Glu Ile

20

<210> 604

<211> 20

<212> PRT

<213> Homo sapiens

<400> 604

Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu

1

5

10

15

Ser His His Pro

20

<210> 605

<211> 20

<212> PRT

<213> Homo sapiens

<400> 605

Leu Glu Ala Glu Ile Glu Ser His His Pro Arg Leu Ala Ser Ala Val

1

5

10

15

Gln Asp His Asp

20

<210> 606

<211> 20

<212> PRT

<400> 606

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<211> 22

<21.2> PRT

<213> Homo sapiens

<400> 607

<210> 608

<211> 20

<212> PRT

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<400> 608

<210> 609

<211> 20

<212> PRT

<213> Homo sapiens

<400> 609

<210> 610

<211> 20

<212> PRT

<213> Homo sapiens

<400> 610

Ser Thr Ile Tyr Asn Asn Glu Val Leu His Gln Pro Leu Ser Glu Ala
1 5 10 15
Gln Arg Lys Ser

20

<210> 611

<211> 21

<212> PRT

<213> Homo sapiens

<400> 611

His Gln Pro Leu Ser Glu Ala Gln Arg Lys Ser Lys Ser Leu Lys Ile

1 5 10 15

Asn Leu Asn Tyr Ala

20

<210> 612

<211> 20

<212> PRT

<213> Homo sapiens

<400> 612

Lys Ser Leu Lys Ile Asn Leu Asn Tyr Ala Gly Asp Ala Leu Arg Glu

1 5 10 15

Asn Thr Leu Val

20

<210> 613

<211> 20

<212> PRT

<213> Homo sapiens

<400> 613

Gly Asp Ala Leu Arg Glu Asn Thr Leu Val Ser Glu His Ala Gln Arg

1 5 10 15

Asp Gln Arg Glu

20

<210> 614

<211> 20

<212> PRT

<213> Homo sapiens

<400> 614

Ser Glu His Ala Gln Arg Asp Gln Arg Glu Thr Gln Cys Gln Met Lys

1 5 10 15

Glu Ala Glu His

20

<210> 615

<211> 20

<212> PRT

<213> Homo sapiens

<400> 615

Thr	Gln	Cys	Gln	Met	Lys	Glu	Ala	Glu	His	Met	Tyr	Gln	Asn	Glu	Gln
1				5					10					15	
Asp	Asn	Val	Asn												
			20												

<210> 616

<211> 20

<212> PRT

<213> Homo sapiens

<400> 616

Met	Tyr	Gln	Asn	Glu	Gln	Asp	Asn	Val	Asn	Lys	His	Thr	Glu	Gln	Gln
1				5					10					15	
Glu	Ser	Leu	Asp												
			20												

<210> 617

<211> 20

<212> PRT

<213> Homo sapiens

<400> 617

Lys	His	Thr	Glu	Gln	Gln	Glu	Ser	Leu	Asp	Gln	Lys	Leu	Phe	Gln	Leu
1				5					10					15	
Gln	Ser	Lys	Asn												
			20												

<210> 618

<211> 21

<212> PRT

<213> Homo sapiens

<400> 618

Asp	Gln	Lys	Leu	Phe	Gln	Leu	Gln	Ser	Lys	Asn	Met	Trp	Leu	Gln	Gln
1				5					10					15	
Gln	Leu	Val	His	Ala											
			20												

<210> 619

<211> 20

<212> PRT

<213> Homo sapiens

<400> 619

Met	Trp	Leu	Gln	Gln	Gln	Leu	Val	His	Ala	His	Lys	Lys	Ala	Asp	Asn
1				5					10					15	
Lys	Ser	Lys	Ile												
			20												

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<210> 624
<211> 20
<212> PRT
<213> Homo sapiens
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<400> 624

Asn His Leu Lys Asn Arg Ile Tyr Gln Tyr Glu Lys Glu Lys Ala Glu
 1 5 10 15
 Thr Glu Val Ile
 20

<210> 625

<211> 27

<212> PRT

<213> Homo sapiens

<400> 625

Leu Thr Leu Asn Gln Glu Glu Glu Lys Arg Arg Asn Ala Asp Ile Leu
 1 5 10 15
 Asn Glu Lys Ile Arg Glu Glu Leu Gly Cys Gly
 20 25

<210> 626

<211> 29

<212> PRT

<213> Homo sapiens

<400> 626

Ile Arg Glu Glu Leu Gly Arg Ile Glu Glu Gln His Arg Lys Glu Leu
 1 5 10 15
 Glu Val Lys Gln Gln Leu Glu Gln Ala Leu Gly Cys Gly
 20 25

<210> 627

<211> 24

<212> PRT

<213> Homo sapiens

<400> 627

Leu Glu Gln Ala Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu
 1 5 10 15
 Ser Asn Leu Asn Gln Gly Cys Gly
 20

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